

**Ingersoll Rand Company
Montvale, New Jersey**



**Annual Groundwater Monitoring
Report and Supplemental
Groundwater Remedial Investigation
Report**

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1.0 INTRODUCTION

On behalf of Ingersoll Rand Company (IR), ENSR has been conducting groundwater remedial investigative activities between August 2004 and July 2005 at the former IR facility located in Phillipsburg, New Jersey (site) as per the New Jersey Department of Environmental Protection (NJDEP) approved February 2002 Groundwater Remedial Investigation Work Plan (GW-RIWP) and the recommendations included in the November 2002 Groundwater Remedial Investigation Report (GW-RIR), the November 2003 Annual Groundwater Monitoring Report and Supplemental Remedial Investigation Report (AGWMMR-SRIR), and the January 2005 Annual Groundwater Monitoring Report and Supplemental Remedial Investigation Report (AGWMMR-SRIR). The site is shown on the USGS 7.5-minute Topographic Quadrangle Map for Easton, PA-NJ included as Figure 1. This November 2005 AGWMMR-SRIR describes the groundwater related activities completed at the site between August 1, 2004 and July 31, 2005 in accordance with the various plans. These activities include:

- Monitoring well installation of MW-51A;
- Quarterly gauging events; and
- Groundwater monitoring.

This report has been prepared in accordance with the March 14, 1994 Administrative Consent Order (ACO) between the State of New Jersey and IR (which is being administered by the NJDEP Office of Brownfield Reuse) and the 2003 Technical Requirements for Site Remediation (TRSR) N.J.A.C.7:26E.

1.1 Background

Ingersoll-Rand began facility construction in 1903 and underwent various expansions and renovations throughout the following 100 years. According to previous reports, the facility produced products such as pumps, turbo equipment, air and gas compressors, rock drills, and mining equipment. The facility also maintained an active iron and steel foundry onsite, which was operated to process the raw materials for manufacturing operations. Since 1973, facility operations have been declining. Restructuring activities resulted in closing or moving of almost all previous facility operations. In September 2004, IR sold the property to Preferred Real Estate Investments (Phillipsburg Associates, LP; Phillipsburg Associates I, LP; Phillipsburg Associates II, LP; and Phillipsburg Associates III, LP). Currently, the activities conducted on site include pump R&D and assembly and associated activities by FlowServe, Inc. and Curtiss Wright Corporation who leases portions of the property from Phillipsburg Associates; structural steel fabrication by Blue Ridge Steel who leases Buildings #16 and #19; and school bus operations by Village Bus who leases Building #37, the former IR Truck terminal. Various unused buildings utilized in former manufacturing processes are vacant or have been demolished. A detailed history along with historic site plans was provided in the October 2004 Site History Report (SHR). A current site plan is included as Figure 2.

Groundwater investigations at the site began voluntarily by IR as early as the mid-1970s when light non-aqueous phase liquid (LNAPL) was discovered on the groundwater table. Subsequent investigation identified a plume of floating product at the site. A detailed background of investigative activities was provided in the 1994 Draft Remedial Investigation Work Plan (RIWP) and modified by the November 2002 GW-RIR. Groundwater monitoring reports have been submitted annually to the NJDEP providing results of the on-going groundwater remedial investigations.

1.2 Objective

The objectives of continued groundwater investigation include:

- Confirm and/or establish horizontal and vertical delineation of LNAPL and dissolved-phase impacts;
- Assess locations in which additional data is required;
- Determine trends in product thickness and dissolved-phase concentrations at individual wells and over the entire site;
- Assess potential sources of LNAPL and dissolved-phase impacts;
- Determine possible migration pathways for LNAPL and dissolved-phase impacts; and
- Verify well locations of potential offsite receptor wells identified in the 2002 Well Search.

The remaining sections of the report are structured as follows:

- 2.0 Technical Overview
- 3.0 Results
- 4.0 Conclusions and Recommendations
- 5.0 References

2.0 TECHNICAL OVERVIEW

Semi-annual monitoring activities have been conducted in accordance with ENSR's February 2002 GW-RIWP, the February 2002 Quality Assurance Project Plan (QAPP), the Technical Requirements for site Remediation (N.J.A.C.7:26E), the May 1992 NJDEP Field Sampling Procedures Manual (FSPM), and the 1997 SRP article "The Low Down on Low-Flow". Based on the GW-RIWP, recommendations of the 2002 GW-RIR, results of previous monitoring events, and discussion with NJDEP, the following activities have been conducted between August 2004 and July 2005.

- Installation of one replacement groundwater monitoring well (MW51A),
- Quarterly product thickness and water level gauging of all site wells, and
- Semi-annual groundwater monitoring of approximately 40 site wells using conventional purging and sampling, low flow purging and sampling, and/or passive diffusion bag sampling.

The following subsections discuss the methods employed to conduct these activities.

2.1 Geologic Conceptual Model

The geology and structure of the bedrock underlying the site were described in detail in the 2004 AGWMR & SRIR and is briefly summarized here.

Bedrock underlying the site consists of three major geologic units (Drake, 1967) ranging in age from the late Cambrian through the early Ordovician periods. The first, the Allentown Formation, which is present throughout the western portion of the site, consists of a very fine to medium grained, gray to dark gray dolomite, with some interbedded shale or shaley dolomite. Boring logs from monitoring wells, recovery wells, and test holes in this area of the site indicate that bedrock surface elevation increases from west to east until its apparent contact with the Rickenbach Formation, creating a ridge in the bedrock topography which traverses the facility area of the site from north to south. Bedrock was encountered in several soil boring locations at depths ranging from 2 to greater than 30 feet as previously noted in 2004 AGWMR & SRIR.

The Rickenbach Formation, a part of the Beekman Group of Lower Ordovician age (approximately 415 million years old) is a fine to coarse grained, light to dark gray dolomite with some breccia and chert beds and some shaley beds. This formation is present throughout much of the eastern portion of the site.

The Epler Formation, which contacts the Rickenbach Formation at the southeastern portion of the site, consists of interbedded, very fine grained, light to medium gray limestone, and fine to medium grained light to dark gray dolomite.

The two different formations of dolomite in this area (Allentown and Rickenbach) are difficult to distinguish due to their lithologic similarities and general lack of fossils. In the Phillipsburg area, the formations described above are folded in a recumbent fashion. To add complexity, a thrust fault (the Wipporwhill Thrust Fault) and an antiform (the Lopatcong Antiform) are located within ½-mile of the site.

Based on the lithologic data collected from the soil borings and wells installed at the site, bedrock fractures are present at various depths throughout the site. Additionally, the bedrock displays characteristics of an active karst aquifer, as sink holes periodically appear on the site, and wells often collapse and have to be redrilled or abandoned. Large, open void spaces have also been encountered during drilling activities at various locations onsite.

The primary structural features of the bedrock beneath the site are the formation bedding planes. These are oriented generally with a northeast to southwest strike and a dip of approximately 45° to the southeast. In the northeastern portion of the site, the strike appears to shift more directly east to west.

2.2 Site Conceptual Model

A site conceptual model was described in detail in the August 2005 Groundwater Remedial Investigation Work Plan (GW-RIWP). It is briefly summarized here.

As previously discussed, IR conducted a variety of manufacturing operations at the facility, including the manufacturing of molds, pumps, compressors, and drills. ENSR conducted a review of historic facility documents to assess the type and extent of historic hazardous liquid releases that may have contributed to groundwater impacts. These documented releases were illustrated on a figure in the 2005 GW-RIWP. No documentation was uncovered that confirmed any historic solvent releases. However, based on facility documents, it appears that solvents were used throughout the facility until the late 1970s. No formal management procedures were identified.

A review of previous groundwater analytical data identified a number of compounds that exceed, the NJDEP Groundwater Quality Standards (GWQS) including some chlorinated solvents and tentatively identified compounds (TICs). Historical groundwater analytical results summary tables are included as Appendix A.

Based on the data collected to date, LNAPL is likely related to multiple documented historic spills, as well as possible incidental spills and releases that may have occurred throughout the operational history.

Based on the observed distribution of LNAPL and chlorinated volatile organic compounds (CVOCs), groundwater flow and therefore contaminant migration are affected by the fracture orientation, with migration to the northeast and southwest. The monitoring wells are not currently constructed to

evaluate vertical components of flow. Conceptually, downward gradients are likely in upland areas, with upward gradients possible in lowlands.

LNAPL appears to be confined to the fracture and/or bedding planes unless it encounters an unidentified void or fracture feature oblique to the bedding, which would enable cross-fracture mobility. This pattern of distribution indicates that there is flow and migration parallel to bedrock strike, which is common in fractured bedrock systems.

NJDEP's response letter dated October 25, 2004, stated that CVOCs were confined to individual plumes. Upon review of the historical data ENSR believes it more appropriate to state that CVOCs appear sporadically across the site with different combinations of individual compounds in different wells. They do not appear to form a significant, extensive migrating plume (or plumes). This pattern of occurrence is consistent with the origin of the CVOCs being small spills or releases from general handling practices at more than one of the many individual historical production areas on-site where solvents were likely to have been used. As with LNAPL, the transport of the CVOCs is likely to be controlled by the bedrock anisotropy, that is, there will be preferential migration to the northeast and southwest, and down-dip to the southeast.

2.3 Well Installation

Between December 13, 2004 and December 17, 2004, MW-51A was re-installed to address horizontal delineation in the southwest corner of the site (see Figure 2). Well installation was completed by Plainfield Well Drilling Co. of Martinsville, New Jersey using an Ingersoll Rand T3W air rotary drill rig under supervision of a New Jersey licensed well driller (Mike Assante, NJ-Lic #J1248) and an ENSR geologist. Well logs and Monitoring Well Construction Diagrams are included as Appendix B.

2.4 Groundwater Monitoring

2.4.1 Groundwater Elevation and LNAPL Thickness

As discussed in the 2005 GW-RIWP and the 2002 GW-RIR, ENSR concluded monthly gauging operations and then began quarterly gauging of site wells in April 2002. For the current reporting period, ENSR conducted quarterly gauging activities on September 30, 2004, January 10, 2005, April 14, 2005, and July 12, 2005.

Gauging was conducted using a site dedicated interface probe and water level indicator using methods described in the NJDEP FSPM (1992, NJDEP). All gauging data were recorded in a dedicated field notebook, checked to assure QA/QC standards as per the 2002 QAPP, and imported into the groundwater database as described in the 2002 GW-RIWP. LNAPL thickness and groundwater elevation tables were generated from the database, and groundwater contour maps were produced for continued trend analysis. Tables 1A through 1D present the groundwater elevation and product

thickness data from the September 2004, January 2005, April 2005, and July 2005 gauging events, respectively.

Using the groundwater elevation data, groundwater contours were generated using Golden Software's Surfer® version 7.0 and overlain on the site map. Groundwater Contour Maps for September 2004, January 2005, April 2005, and July 2005 are provided as Figures 3 through 6. Wells at which LNAPL was encountered are identified on these figures and observed LNAPL thickness is reported. Due to the irregularity of LNAPL thickness within the fractured bedrock aquifer at the site, product thickness isopleths have not been generated.

2.4.2 Groundwater Sampling

During the October 2004 sampling event, to assess the vertical and horizontal extent of dissolved-phase groundwater impacts, 16 wells were sampled using passive diffusion bag (PDB) samplers deployed at multiple depths within each well; 25 wells were sampled using conventional purging and sampling methods; and five wells were purged using low flow methods as previous sampling efforts induced flow of LNAPL into the wells. During the April 2005 sampling event, 35 wells were sampled using passive diffusion bag (PDB) samplers deployed at multiple depths within each well; four wells were sampled using conventional purging and sampling methods; and 20 wells were purged using low flow methods.

The selection of wells were based on data needs including, but not limited to, determining and/or maintaining horizontal and vertical delineation, assessing dissolved-phase impacts, and assessing potential source areas. Prior to each sampling event, NJDEP was notified of the proposed sampling program.

Wells at which PDBs were deployed were selected based on a previous detection of one or more CVOCs greater than NJDEP Ground Water Quality Standards (GWQS). Deployment depths for PDBs were determined by reviewing fracture locations reported on boring and/or drilling logs, well construction details, and/or geophysical data from the 2002 through 2004 groundwater investigation.

Wells at which samples were collected by conventional techniques were selected to maintain horizontal delineation of groundwater impacts at the site. To reduce the total number of wells used in horizontal delineation, monitoring wells were grouped by proximity into groups of two, three, or four and assigned a number indicating preferential sampling sequence. If the preferred well was inaccessible due to the presence of a product recovery system, LNAPL, or other sampling limitation, then the next well in the group was evaluated in the field for potential sampling. At least one well from each group was sampled during each field event.

Groundwater samples from selected wells were analyzed for priority pollutants (PP) metals both in response to the NJDEP letter dated October 28, 2003 and as well as previous sample results for selected metals at the site.

A sample summary is included as Table 2A and 2B for the October 2004 and April 2005 sampling events, respectively. The following subsections detail the specific procedures used during these sampling events.

2.4.2.1 Passive Diffusion Bag Sampling

In attempt to characterize the vertical stratification of dissolved-phase constituents, ENSR sampled 16 wells in October 2004 and 35 wells in April 2005 using PDB samplers at multiple depths within each well. The deployment depth for PDB samplers is detailed in Tables 2A and 2B. The PDBs were installed on September 20, 2004, and April 4 and 5, 2005 using the methods described in the *User's Guide for Polyethylene-Based Passive Diffusion Bag Samplers to Obtain Volatile Organic Compound Concentrations in Wells* (USGS, 2001). Specifically, PDBs were field-filled with laboratory-grade, analyte free, deionized water supplied by Severn Trent Laboratories (STL-Edison) and were hung on polypropylene rope. Each rope was labeled with the corresponding well identification number and rings were placed at the pre-selected deployment depths prior to field mobilization. The PDB sample string was hung from an eyehook installed on the steel casing and left to equilibrate with the ambient groundwater conditions for 2 weeks. Samples were collected on October 4, 2004, and April 18 and 19, 2005 by pouring the water from each PDB into laboratory supplied glassware. Samples were labeled with the well ID appended with a letter code corresponding to the depth that the PDB was deployed, the sample date and time, and the analysis requested. Samples were then placed in an ice-filled cooler to reduce sample temperature to approximately 4° Celsius and were submitted under standard chain of custody procedures to STL-Edison for analysis of volatile organic compounds with a library search of the 10 largest unidentified peaks (VOC+10) via EPA Method 624. Laboratory analytical data reports are included in Appendix C.

2.4.2.2 Conventional Groundwater Sampling

After completion of PDB sample collection, a conventional sampling program was conducted from October 5, 2004 through October 21, 2004, and from April 26, 2005 through April 29, 2005. Twenty-five wells in October 2004 and four wells in April 2005, listed in Table 2A and 2B respectively, were sampled as per the methods described in the *NJDEP FSPM*. Specifically, the following was conducted.

Using a two-inch stainless steel Grundfos® pump and dedicated polyethylene tubing, the pump was lowered to approximately 10 feet below the water table prior to commencement of purging. Based on the drawdown of water during purging, the pump was lowered accordingly. Purge water was pumped into a water quality meter and water quality parameters were recorded at the beginning and end of the

purge. Groundwater quality parameters including temperature, pH, conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential were recorded in field logs and dedicated field notebooks and transposed to electronic Groundwater purging and sampling logs which are included in this report as Appendix C.

Upon completion of purging approximately three-well volumes, a dedicated weighted polyethylene bailer was used to collect groundwater samples. Metal samples were filtered by pouring directly from the bailer into a dedicated polyethylene bottle and filtered through a dedicated 45-micron filter into the laboratory supplied glassware preserved with nitric acid. Other samples were poured directly from the bailer into laboratory supplied glassware. The samples were labeled with sample ID, date and time collected, requested analysis, and the sampler's initials. Samples were then placed in an ice-filled cooler to reduce the sample temperature to approximately 4° Celsius and submitted to STL-Edison for analysis of one or more of the following compounds (as specified on Tables 2A and 2B):

- Volatile organic compounds with a library search of the 10 largest unidentified peaks (VOC+10) via EPA Method 624,
- Priority pollutant metals via EPA Method series 200.

Laboratory analytical data reports are included in Appendix C.

2.4.2.3 Low Flow Groundwater Sampling

Low-flow groundwater sampling was conducted from October 19, 2004 to October 22, 2004 and April 20, 2005 to April 28, 2005 at wells listed in Table 2A and 2B, in accordance with NJDEP Low-Down on Low Flow (SRP News, Vol.9 No.3) as well as USEPA's Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (EPA, 1996). Specific procedures employed are as follows.

A two-inch diameter stainless steel Grundfos® submersible pump was lowered to a pre-selected depth determined by selecting a possible water bearing fracture as identified by geophysical logging or the drilling log as well as results from previous sampling events at each monitor well location. Dedicated polyethylene tubing was used to connect the pump to a Horiba® U-22 water quality meter with an in-line, flow through cell. Groundwater was purged at each monitor well location at approximately 1-gallon per minute or less to control drawdown, and water quality parameters were collected at approximately 3 to 5 minute intervals. Water quality parameters were recorded on field logs and dedicated field notebooks later transcribed to an electronic version. The groundwater purging and sampling logs are included in Appendix D.

Upon stabilization of groundwater quality parameters, samples were collected directly from the dedicated polyethylene tubing (prior to entering flow-through cell) and into laboratory supplied glassware, subsequently labeled with sample ID, date and time collected, requested analysis, and

samplers initials. Filtered metals samples were pumped directly through a dedicated 45-micron filter into the laboratory supplied glassware preserved with nitric acid. Samples were then placed in an ice-filled cooler to reduce the sample temperature to approximately 4° Celsius and submitted to STL-Edison for analysis of PP Metals via EPA Method series 200.

Laboratory analytical data reports are included in Appendix C.

2.5 Nature of Contamination and Cleanup Criteria

Contaminants historically identified in groundwater samples collected from the site wells include CVOCs and metals. Additionally, LNAPL was identified on the groundwater surface at several well locations across the site. For purposes of this report, compound concentrations are being compared to the NJDEP Groundwater Quality Standards (N.J.A.C. 7:9-6), the interim specific groundwater cleanup criteria, and the interim generic groundwater cleanup criteria to assess the extent of impact and make recommendations for further action.

2.6 Reliability of Data

This section describes reliability of all field and laboratory derived data collected from August 2004 to July 2005.

Groundwater Analytical Data

STL-Edison performed the analysis in accordance with EPA-approved analytical protocols for methods 624 (VOCs), 6010B (arsenic), and 200.7 (priority pollutant metals or arsenic or chromium and lead) under the laboratory's NJDEP certification. Analytical results (Table 5, 6, and 7) were reviewed to assess accuracy and precision. Based on a review of the laboratory non-conformance summaries and quality assurance/quality control (QA/QC) data, no data quality issues were identified. Non-conformances are summarized in Table 2A and 2B and nonconformance reports are included in the laboratory data reports found in Appendix C.

A review of the nonconformance for October 2004 (Table 2A) indicate the matrix spike percent (MS%) recovery of chloroethane (ClEth) for lab job number M018 QA batch 6141 and 6143 was outside Q.C. limits (sample amount was too high for spike level). Trichloroethene and 1,1,1-trichloroethane (1,1,1-TCA) were outside Q.C. limits for lab job number M217 and M839, respectively.

A review of the nonconformance for April 2005 (Table 2B) indicate lab job number W965 QA batch 8071 MS% recovery of ClEth was outside Q.C. limits (sample amount was too high for spike level).

A review of the quality assurance/quality control sample analytical results for October 2004 (Tables 3 and 4) indicate methylene chloride was detected in field blank samples F100604 (3.6 ug/L), F101504 (0.6 ug/L), and F102104 (0.3 ug/L) and TICs were reported in F100604 (7.4 ug/L) and F101504 (3.5 ug/L). No other VOCs were reported in October 2004 QA/QC samples. Zinc was reported in field blank F101104 (7.7 ug/L), F101204 (8.2 ug/L), F101404 (5.8 ug/L), F101504 (7.4 ug/L), and F101804 (6.5 B ug/L). Chromium (1.7 ug/L) and lead (2.6 ug/L) were also detected in field blank F101304.

A review of the quality assurance/quality control sample analytical results for April 2005 (Tables 3 and 4) indicate that only methylene chloride (0.5 ug/l) was detected in the field blank F042905 and toluene was detected in the field blank F041905 (0.6 ug/L), which was also reported in the trip blank T041905 (0.6 ug/L). No VOCs were detected in the remaining field blanks and trip blanks. Zinc (6.0 ug/L) was the only metal reported in the field blanks.

Based on the above, the data reported appears to be representative of site conditions and are acceptable for use and comparison.

3.0 RESULTS

3.1 Well Installation

One monitoring well, MW51A, was installed in the northwestern corner of the former Cameron Area to address horizontal delineation of CVOCs at the property boundary of this area. MW51A was installed to replace MW51 which had collapsed. MW51A was constructed using six-inch diameter steel casing which was grouted to a depth of 140 feet below ground surface (bgs). Bedrock was encountered at 25 feet bgs. A screened interval was constructed between 115 feet bgs and 135 feet bgs via in situ perforation. No odors or visible sheens were observed during drilling activities. Surveying was completed on April 7, 2005 by J. Peter Borbas (P.L.S. NJGS 31653). Well completion record and location record (Forms A and B) are included in Appendix B along with the boring and well construction log. The well was sampled during the April 2005 sampling event. The results are discussed below.

3.2 Groundwater Elevation Gauging Results

As previously discussed, groundwater gauging measurements were collected in September 2004, January 2005, April 2005, and July 2005.

Based on the construction of most of the wells at the site, the measured groundwater elevations represent vertically average groundwater heads. Generally, groundwater potential in the main plant area decreases toward the southeast. However, an area of higher groundwater elevation is present in the vicinity of RW9, at the center of the facility buildings. This may create components of the gradient to the south and southwest in the area just north of the New Landfill, to the west in the area near the Stormwater Retention Basin, and north and northeast in the northern portion of the facility. Additionally, groundwater in the southern portion of the site seems to follow a potentiometric gradient across the landfills from west to east or in an east-southeast direction. Actual directions of groundwater flow in any portion of the site would be dependent on the presence of water bearing fractures and their orientation.

Based on a review of groundwater gauging data, presented in Tables 1A through 1D, it appears that groundwater elevation may be seasonally influenced. The data indicates that groundwater elevations slightly increased from September 2004 to January 2005 and decreased in April 2005 and increased in July 2005.

The results of each of the groundwater gauging events are briefly described below.

The September 2004 groundwater gauging results are summarized in Table 1A and a groundwater elevation contour map is provided as Figure 3. Groundwater elevations in October 2004 ranged from 220.96 feet above mean sea level (AMSL) to 312.54 feet AMSL. The average hydraulic gradient across the site was approximately 0.051 feet/foot and ranged from 0.020 feet/foot to 0.080 feet/foot.

LNAPL was encountered in 11 of the 59 wells gauged and thickness ranged from 0.09 to 17.5 feet with an average thickness of 2.12 feet and a median thickness of 0.39 feet.

The January 2005 groundwater gauging results are summarized in Table 1B and a groundwater elevation contour map is provided as Figure 4. Groundwater elevations in January 2005 ranged from 227 feet AMSL to 310.72 feet AMSL. The average hydraulic gradient across the site was approximately 0.055 feet/foot and ranged from 0.024 feet/foot to 0.120 feet/foot. LNAPL was encountered in 12 of the 69 wells gauged and thickness ranged from 0.06 to 3.94 feet with an average thickness of 0.77 feet and a median thickness of 0.175 feet.

The April 2005 groundwater gauging results are summarized in Table 1C and a groundwater elevation contour map is provided as Figure 5. Groundwater elevations in April 2005 ranged from 220.46 feet AMSL to 317.52 feet AMSL. The average hydraulic gradient across the site was approximately 0.052 feet/foot and ranged from 0.020 feet/foot to 0.103 feet/foot. LNAPL was encountered in 13 of the 70 wells gauged with thickness ranging from 0.01 to 2.7 feet thick at an average thickness of 0.058 feet and a median thickness of 0.23 feet.

The July 2005 groundwater gauging results are summarized in Table 1D and a groundwater elevation contour map is provided as Figure 6. RW02, RW03, RW04, RW06, RW07, RW08A, and RW17, recovery wells that are part of onsite recovery system were upgraded and have not yet been resurveyed. The gauging data was recorded but not included within the calculations. Groundwater elevations in July 2005 ranged from 226.73 feet AMSL to 306.83 feet AMSL. The average hydraulic gradient across the site was approximately 0.057 feet/foot and ranged from 0.027 feet/foot to 0.124 feet/foot. LNAPL was encountered in 14 of the 68 wells gauged with thickness ranging from 0.03 to 2.55 feet at an average thickness of 0.49 feet and a median thickness of 0.17 feet.

3.3 Groundwater Sample Analytical Results

As discussed in Section 2.1.3, semi-annual groundwater sampling was conducted in October 2004 and April 2005, which included the collection of groundwater samples using passive diffusion bag, conventional, and low flow sampling methods. Analytical results were received electronically from the laboratory and imported into the groundwater database for analysis. The following subsections discuss the results of the PDB, conventional, and low flow groundwater sample analysis, respectively.

3.3.1 Passive Diffusion Bag Results

3.3.1.1 October 2004 Sampling Event

As shown on Table 2A, 41 PDB samples and two duplicate samples were collected. Analytical results, summarized in Table 5, indicate that two wells (RW11 and TH36) had trace amounts of VOCs reported, none of which were detected in excess of GWQS; and one well (MW12) reported no VOCs

compounds detected. The remaining wells (MW04, MW06, MW16, MW32, MW33A, MW34, MW35, MW37, RW09, RW14, RW15, RW16, and THWLS) had reported concentrations of one or more of the following compounds in excess of the GWQS: 1,1,1-trichloroethane (0.5 ug/L - 93 ug/L), 1,1-DCA (0.4 ug/L - 250 ug/L), 1,1-dichloroethene (0.4 ug/L - 9.8 ug/L), 1,2-DCA (14 ug/L - 15 ug/L), CT (0.7 ug/L - 2.5 ug/L), chloroethane (22 ug/L - 1100 ug/L), cis-1,2-dichloroethene (0.4 ug/L - 140 ug/L), tetrachloroethylene (0.4 ug/L - 8.1 ug/L), trichloroethylene (0.4 ug/L - 25 ug/L), and vinyl chloride (4.3 ug/L - 160 ug/L). Figure 7 shows groundwater analytical results for compounds, which were reported at concentrations in excess of the GWQS at each well.

3.3.1.2 April 2005 Sampling Event

As shown on Table 2B, 66 PDB samples were collected with four duplicate samples. Analytical results, summarized in Table 5, indicate that eight wells (MW02A, MW03, MW12, MW50, MW53, RW10, RW14, and THWLS) had trace amounts of VOCs reported; none of which were detected in excess of GWQS; 15 wells (MW12, MW13, MW18, MW19, MW20, MW24, MW26, MW27, MW30, MW47, MW48, MW49, MW51A, MW52, and MW54) reported no detected compounds in the sample. The remaining wells (MW04, MW06, MW16, MW32, MW33A, MW34, MW35, MW37, RW09, RW11, RW15, RW16, and TH36) had reported concentrations of one or more of the following compounds in excess of the GWQS: 1,1,1-trichloroethane (0.4 ug/L - 160 ug/L), 1,1,2-Trichloroethane (2.9 ug/L - 4.0 ug/L), 1,1-DCA (0.4 ug/L - 340 ug/L), 1,1-dichloroethene (0.4 ug/L - 24 ug/L), 1,2-DCA (5.9 ug/L - 7.3 ug/L), chloroethane (3.1ug/L - 790 ug/L), cis-1,2-dichloroethene (0.4 ug/L - 190 ug/L), tetrachloroethylene (0.4 ug/L - 6.8 ug/L), trichloroethylene (0.7 ug/L - 20 ug/L), and vinyl chloride (9.9 ug/L - 160 ug/L). Figure 7 shows groundwater analytical results for compounds, which were reported at concentrations in excess of the GWQS at each well.

The newly installed well, MW51A, was also sampled in April 2005 using PDBs. No VOCs were detected in the sample from the well.

3.3.1.3 Specific Comparison of the October 2004 and the April 2005 Sampling Events

- **MW-04** – During the 2004 and 2005 sampling event, concentrations of cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethylene (PCE), trichloroethylene (TCE), and vinyl chloride (VC) exceeded GWQS (70 ug/l, 1 ug/l, 1 ug/l, and 5 ug/l, respectively). In October 2004, concentrations of PCE, TCE, and VC increased with depth. These compounds remained at concentrations that were less than GWQS (1 ug/l, 1 ug/l, and 5 ug/l, respectively) until 120 feet below top of casing. In April 2005, cis-1,2-DCE, PCE, TCE, and VC decreased to concentrations less than the GWQS at 96 and 108 feet below top of casing.
- **MW-06** – In October 2004 and April 2005, similar concentrations of 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), and TCE were detected greater than GWQS (30 ug/L, 2

ug/L, and 1 ug/L, respectively) with depth. However, during the October 2004 sampling event, concentrations at 187 feet below top of casing were generally lower than other depths and less than the previous sampling event.

- **MW-16** – 1,1-DCE and PCE were detected above GWQS in both the October 2004 and April 2005 events. Concentrations were observed to be similar at the various sample collection depths. Concentrations were slightly higher in April 2005 compared to October 2004.
- **MW-26** – In October 2004, this well was sampled via conventional sampling methods. TICs were detected; however, no target VOCs were detected. During the April 2005 event, the samples were collected from 133 and 145 feet below top of casing using PDB groundwater sampling methods and no TICs or VOCs were detected.
- **MW-32** – Concentrations of TCE remained consistent with depth and sampling events with a slightly greater concentration than GWQS (1 ug/L).
- **MW-33A** – In October 2004, the concentration of 1,1-DCE at 107 feet below top of casing was reported slightly greater than GWQS (2 ug/L) at 2.1 ug/l. The remaining sample depths were reported less than GWQS. Concentrations of 1,1-DCE remained less than GWQS during the April 2005 sampling event. PCE and TCE remained consistent and slightly greater than GWQS (1 ug/L and 1 ug/L, respectively) with depth for the October and April sampling events.
- **MW-34** – Concentrations of PCE and TCE at this well were slightly greater than GWQS and showed a minimal increasing trend with depth during the 2004 and 2005 sampling events.
- **MW-35** – Samples were only collected six feet apart within this well at 122 feet and 128 feet below top of casing. Concentrations of 1,1,1-TCA, 1,1-DCE, PCE and TCE were reported greater than GWQS (30 ug/L, 2 ug/l, 1 ug/L, and 1ug/L, respectively) in both 2004 and 2005 sampling events and decreased with depth within this well.
- **MW-37** - Concentrations of TCE were reported greater than GWQS (1 ug/L) and increased with depth during the October 2004 and April 2005 sampling events. Carbon tetrachloride (CT) remained consistent with depth in 2004 and 2005, and concentrations were reportedly less than GWQS (2 ug/L) in all samples, except in October 2004 at 98 feet below top of casing (2.5 ug/L).
- **MW-47** – In October 2004, this well was sampled via conventional sampling methods. TICs were detected; however, no target VOCs were detected. During the April 2005 event, the sample was collected from 136.5 feet below top of casing using PDB groundwater sampling methods and no TICs or VOCs were detected.

- **RW-09** – During the October 2004 and April 2005 sampling events, concentrations of cis-1,2-DCE demonstrated a decrease with depth and increase from October 2004 to April 2005. During the October event, concentrations were reported below GWQS (70 ug/L) at 160 and 188 feet below top of casing, while in April, concentrations remained greater than GWQS. TCE was consistently reported with depth between sampling events just above and just below GWQS (1 ug/L) at 160 and 188 feet below top of casing. VC (GWQS 5 ug/L) showed an increase in concentration with depth and a slight increase from October 2004 to April 2005.
- **RW-11** – Concentrations of PCE in both sampling events were slightly greater than or equal to GWQS (1 ug/L) at 115 feet and non-detect at a depth of 170 feet below top of casing.
- **RW-14** – During the October 2004 and April 2005 sampling events, concentrations of TCE remained similar, less than GWQS at 0.8 ug/L in 2004 and just greater than GWQS at 1.7 ug/L in 2005 at a sample depth of 165 feet below top of casing.
- **RW-15** – Concentrations of PCE and TCE were less in April 2005 than in October 2004; however in both events the concentrations remained similar with depth. In 2004, concentrations of PCE and TCE were reported greater than GWQS (1 ug/L and 1 ug/L, respectively). In 2005, PCE remained greater than GWQS and TCE was reported less than GWQS.
- **RW-16** – All concentrations of 1,1,1-TCA, 1,1-DCA (1,1-DCA), 1,1-DCE, 1,2-dichloroethane (1,2-DCA), chloroethane (ClEth), TCE, and VC were reported greater than GWQS (30 ug/L, 50 ug/L, 2 ug/L, 2 ug/L, 100 ug/L, 1 ug/L, and 5 ug/L, respectively). Concentrations were generally similar with depth. However, concentrations of 1,1,1-TCA, 1,1-DCA, 1,1-DCE, TCE, and VC increased from the October 2004 to the April 2005 sampling event. Concentrations of 1,2-DCA and ClEth decreased from October 2004 to April 2005 sampling event, while remaining above GWQS.
- **TH36** – One sample was collected at 100 feet below top of casing during the October 2004 and April 2005 sampling events. During the 2004 event, no concentrations were reported greater than GWQS for PCE and TCE (1 ug/L and 1 ug/L, respectively). PCE and TCE were reported at 6.8 ug/L and 4.7 ug/L, respectively during the April 2005 event.
- **THWLS** – During the October 2004 and April 2005 sampling events, one PDB was collected from 110 feet below top of casing. A deeper sample could not be collected from this well due to the partial collapse of the deeper borehole extension of THWLS. Concentrations of 1,1,1-TCA, 1,1-DCA and 1,1-DCE were reported greater than GWQS (30 ug/L, 50 ug/L, and 2 ug/L, respectively) during the 2004 sampling event and greatly decreased to less than GWQS in the 2005 sampling event.

3.3.2 Conventional Sample Results, VOCs

3.3.2.1 October 2004 Sampling Event

As shown in Table 2A, 25 wells were sampled during the October 2004 sampling event using conventional methods.

Groundwater analytical results, summarized in Table 7, reported no concentrations greater than GWQS for volatile organic compounds in all the wells sampled (Figure 7).

3.3.2.2 April 2005 Sampling Event

As shown in Table 2B, four wells were sampled during the April 2005 sampling event using conventional methods.

Groundwater analytical results, summarized in Table 7, reported PCE greater than GWQS (2.0 ug/L and 1.8 ug/L) in MW11 and RW13, respectively (Figure 7).

3.3.2.3 Specific Comparison of the October 2004 and the April 2005 Sampling Events

- **MW-01** – Concentrations in this well remained non-detectable for both the October 2004 and the April 2005 sampling events.
- **MW-11** – Concentrations of PCE were reported greater than GWQS (1 ug/L) during the April 2005 sampling event. MW11 was not included during the October 2004 sampling event.
- **MW-15** – Detections remained less than GWQS for both the October 2004 and April 2005 sampling events.
- **RW-13** – Concentrations of PCE were reported greater than GWQS (1 ug/L) during the April 2005 sampling event. RW13 was not included during the October 2004 sampling event.

3.3.3 Metals Sampling Results

3.3.3.1 October 2004 Sampling Event

As shown in Table 2A, nineteen wells were sampled for PP metals; five via low flow and fourteen by conventional purging and sampling techniques. No concentrations of metals were reported in excess of current GWQS (Table 7, Figure 8).

3.3.3.2 April 2005 Sampling Event

As shown in Table 2B, twenty-two wells were sampled for PP metals; twenty via low flow and two via conventional purging and sampling techniques. No concentrations of metals were reported in excess of current GWQS (Table 7, Figure 8).

3.3.4 Field Parameters

October 2004

Field parameters, summarized in Table 8, collected from sampled wells across the site indicate that groundwater pH ranged between 7.0 and 9.0 across the site. Dissolved oxygen (DO) measurements at each of the wells indicated that groundwater across the site was oxygenated at concentrations greater than 2.0 mg/l, except at MW-13, MW-53, and RW-09 where DO measurements were 1.3 mg/l, 1.89 mg/l, and 0.39 mg/l. Oxidation-reduction potential (ORP) appears to be mainly oxidative across the site ranging between 0 mV and 291 mV, except at MW-12, MW-20, MW-26, MW-53, MW-54, and RW-09 (between -17 mV and -182 mV), where groundwater ORP appears reductive.

April 2005

Field parameters, summarized in Table 8, indicate that groundwater pH from all the wells sampled in April 2005 ranged between 6.0 and 8.5. Dissolved oxygen (DO) measurements at 9 of the 22 wells (MW-04, MW-12, MW-26, MW-27, MW-30, MW-52, MW-53, MW-54, and RW-09) reported anaerobic conditions (less than 2.0 mg/l), while the remaining wells indicated that groundwater was oxygenated with concentrations greater than 2.0 mg/l. Oxidation-reduction potential (ORP) was observed to be mainly oxidative across the site ranging between 50 mV and 187 mV, except at MW-12, MW-26, MW-53, MW-54, and RW-09, where groundwater ORP appeared reductive and ranged between -16 mV and -148 mV.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This section provides conclusions and recommendations based on the data for the August 2004 to July 2005 reporting period.

4.1 Well Installation

4.1.1 Conclusions

One monitoring well, MW51A, was installed in the northwestern corner of the former Cameron Area to address horizontal delineation of CVOCs at the property boundary of this area. MW51A was installed to replace MW51 which had collapsed. The well was constructed with a 25-foot in situ perforated steel casing in bedrock. Analytical results indicated that dissolved-phase VOCs and metals have not impacted groundwater at this location.

4.1.2 Recommendations

ENSR recommends continued gauging at this location and will include this well in future semi-annual sampling to confirm these results.

4.2 Groundwater Investigation and Data Analysis

4.2.1 Conclusions

Concentrations of CVOCs detected in wells have varied over time. Seasonal variations appear to affect results at a few specific well locations (i.e. MW04). However, specific groups of chlorinated organic compounds have consistently been detected at specific wells. 1,1,1-TCA, PCE, and TCE are present at different wells; none of which suggest the existence of a continuous plume of CVOCs at the site. Groundwater results confirm the conceptual site model in that CVOC releases that occurred at various areas of the site have resulted in several localized areas of impact.

Select metals analysis has consistently indicated that metals have not impacted the site surrounding monitoring wells MW04, MW30, MW36, MW39, RW09, RW11, TH36 as previous data suggested. A more widespread sampling of PP metals conducted in October 2004 and April 2005 confirmed that metals are not impacting the site groundwater. Compounds previously detected in excess of the GWQS standards, specifically arsenic, lead, and chromium, have not been reported in excess of GWQS in three of the past four sampling events.

4.2.2 Recommendations

Groundwater analytical results from October 2004 and April 2005 suggest that vertical delineation of chlorinated organic compounds has not been fully completed. In addition, the extent of CVOCs at the southwestern site boundaries has not been horizontally delineated. As outlined in the 2005 GW-RIWP, a program of hydrogeologic testing and chemical sampling is on-going, including salt-slug testing, pump testing, packer testing, and installation of a deep well to aid in completing the site delineation. Furthermore, a well search is in progress to identify off-site potable wells within a half mile radius of the southwestern corner of the site for sampling purposes.

Groundwater sampling for VOCs using PDB and conventional methods are proposed for each well sampled during the October 2005 and April 2006 sampling rounds contingent upon the lack of product in each well.

With respect to metals, this past year of sampling has confirmed concentrations of metals to be less than current GWQS. ENSR recommends discontinuing the sampling for metals at the site.

With respect to LNAPL, product recovery operations will continue at the site.

5.0 REFERENCES

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USGS, 1981, 7.5-minute Quadrangle Map, Eastern PA-NJ.

TABLES

TABLE 1A
Summary of Groundwater Gauging Measurements: September 2004
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW01	09/30/04	363.72	94.85	268.87	none	122.7
MW10	09/30/04	356.22	79.5	276.72	none	144.07
MW11	09/30/04	364.25	72.82	291.43	none	199.32
MW12	09/30/04	364.15	94.59	269.56	none	158.5
MW13	09/30/04	359.58	88.62	270.96	none	207
MW15	09/30/04	362.72	94.7	268.02	none	120.6
MW16	09/30/04	363.66	76.53	287.13	none	199.4
MW17	09/30/04	324.39	55.72	268.67	none	156.3
MW18	09/30/04	347.63	78.1	269.53	none	94.3
MW19	09/30/04	340.66	83.85	256.81	none	150
MW20	09/30/04	333.58	65.7	267.88	none	137.6
MW21	09/30/04	355.85	69.35	286.5	none	199.9
MW24	09/30/04	362.77	96.78	265.99	none	149.6
MW25	09/30/04	319.66	NR	NR	NR	NR
MW26	09/30/04	318.76	59.42	259.34	none	155.41
MW27	09/30/04	352.54	81.36	271.18	none	140
MW28A	09/30/04	344.27	41.8	302.47	0.55	NG
MW29	09/30/04	327.58	NR	NR	NR	NR
MW02A	09/30/04	354.33	91.62	262.71	none	136.33
MW03	09/30/04	339.68	75.03	264.65	none	126.83
MW30	09/30/04	290.67	NR	NR	NR	NR
MW31	09/30/04	368.09	91.23	276.86	none	174
MW32	09/30/04	367.37	95.78	271.59	none	118.8
MW33A	09/30/04	352.06	86.55	265.51	none	122.2
MW34	09/30/04	351.81	88.23	263.58	none	118.51
MW35	09/30/04	351.06	88.03	263.03	none	138.2
MW36	09/30/04	333.26	94.45	238.81	none	146.73
MW37	09/30/04	285.33	59.2	226.13	none	99.63
MW38	09/30/04	310.83	NG	NG	NG	NG
MW39	09/30/04	341.81	68.3	273.51	none	135
MW04	09/30/04	317.20	81.95	235.25	none	128.2
MW40	09/30/04	347.85	78.18	269.67	none	139.9
MW41	09/30/04	347.91	70.75	277.16	none	148.85
MW42	09/30/04	345.57	76.95	268.62	none	124.78
MW43A	09/30/04	341.15	72.45	268.7	none	102.5
MW44	09/30/04	340.59	75.28	265.31	none	101.06
MW45	09/30/04	308.05	37.92	270.13	none	71.53
MW46	09/30/04	374.40	NG	NG	NG	NG
MW47	09/30/04	361.67	84.95	276.72	none	138.9
MW48	09/30/04	329.23	91.6	237.63	none	136.1
MW49	09/30/04	230.74	3.5	227.24	none	56
MW05	09/30/04	326.36	NG	NG	NG	NG
MW50	09/30/04	346.22	83.3	262.92	none	168.1
MW51	09/30/04	346.55	NG	NG	NG	NG

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Nine wells were gauged but not reported (NR) due to the lack of compatibility to historical records and/or sampling data.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness *product density)]}.

Product density has been assumed to be 0.866.

Five wells were not gauged (NG) during this event due to accessibility issues, or due to the collapse of the well.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 1A
Summary of Groundwater Gauging Measurements: September 2004
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW52	09/30/04	360.29	92.73	267.56	none	122.7
MW53	09/30/04	357.00	115.8	241.2	none	164
MW06	09/30/04	350.39	89.35	261.04	none	196.17
MW08	09/30/04	363.63	79.36	284.27	none	174.2
MW09	09/30/04	347.12	72.75	274.37	none	188.8
RW01	09/30/04	350.81	74.21	277.41	0.94	NG
RW10	09/30/04	363.14	81.85	281.29	none	NG
RW11	09/30/04	362.42	NR	NR	NR	NR
RW12	09/30/04	363.16	91.56	271.6	none	NR
RW13	09/30/04	360.21	NR	NR	NR	NR
RW14	09/30/04	362.07	93.6	268.79	0.37	NG
RW15	09/30/04	362.07	78.5	283.57	none	143.1
RW16	09/30/04	363.35	94.95	268.4	none	152
RW17	09/30/04	341.80	77.55	265.6	1.5	NG
RW02	09/30/04	360.46	72.1	289.31	1.1	NG
RW03	09/30/04	350.20	NR	NR	NR	NR
RW04	09/30/04	362.96	94.93	268.11	none	150.1
RW05	09/30/04	358.87	77.03	281.92	0.09	NG
RW06	09/30/04	358.63	77.78	281.1	0.29	NG
RW07	09/30/04	360.11	NR	NR	NR	NR
RW08	09/30/04	361.01	NG	NG	NG	NG
RW08A	09/30/04	360.30	NR	NR	17.5	NR
RW09	09/30/04	363.67	51.3	312.54	0.2	NG
TH36	09/30/04	361.15	59.02	302.13	none	NG
THBF	09/30/04	351.16	68.05	283.11	none	116.83
THby4	09/30/04	373.37	92.96	280.75	0.39	NG
THWLS	09/30/04	373.47	93.3	280.46	0.34	127.07
OldWW	09/30/04	350.00	NR	NR	NR	NR

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Nine wells were gauged but not reported (NR) due to the lack of compatibility to historical records and/or sampling data.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness *product density)]}.

Product density has been assumed to be 0.866.

Five wells were not gauged (NG) during this event due to accessibility issues, or due to the collapse of the well.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 1B
Summary of Groundwater Gauging Measurements: January 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW1	01/10/05	363.72	94.53	269.19	none	122
MW10	01/10/05	356.22	71.11	285.11	none	143.5
MW11	01/10/05	364.25	77.73	286.52	none	199.4
MW12	01/10/05	364.15	94.85	269.3	none	157.1
MW13	01/10/05	359.58	88.38	271.2	none	191.1
MW15	01/10/05	362.72	94.77	267.95	none	128
MW16	01/10/05	363.66	89.91	273.75	none	182
MW17	01/10/05	324.39	55.85	268.54	none	156.3
MW18	01/10/05	347.63	78.27	269.36	none	92.2
MW19	01/10/05	340.66	86.2	254.46	none	150
MW20	01/10/05	333.58	66.13	267.45	none	136.9
MW21	01/10/05	355.85	72.81	283.04	none	199.9
MW24	01/10/05	362.77	96.56	266.21	none	149.7
MW25	01/10/05	319.66	67	252.66	none	160
MW26	01/10/05	318.76	68.96	249.8	none	154.6
MW27	01/10/05	352.54	81.03	271.51	none	139.7
MW28A	01/10/05	344.27	51.55	292.84	0.12	NG
MW29	01/10/05	327.58	66.45	261.13	none	107.6
MW2A	01/10/05	354.33	91.92	262.41	none	136.1
MW3	01/10/05	339.68	75.35	264.33	none	118
MW30	01/10/05	290.67	52.58	238.09	none	77
MW31	01/10/05	368.09	91.38	276.71	none	172
MW32	01/10/05	367.37	95.7	271.67	none	112.7
MW33A	01/10/05	352.06	86.5	265.56	none	122.1
MW34	01/10/05	351.81	89.35	262.46	none	118.95
MW35	01/10/05	351.06	89.58	261.48	none	138.7
MW36	01/10/05	333.26	98.4	234.86	none	145.6
MW37	01/10/05	285.33	52.95	232.38	none	104.3
MW38	01/10/05	310.83	NG	NG	none	NG
MW39	01/10/05	341.81	73.28	268.53	none	135
MW4	01/10/05	317.20	84.22	232.98	none	104.7
MW40	01/10/05	347.85	78.05	269.8	none	138.6
MW41	01/10/05	347.91	72.4	275.51	none	146.35
MW42	01/10/05	345.57	75.75	269.82	none	123.4
MW43A	01/10/05	341.15	70.89	270.26	none	102.7
MW44	01/10/05	340.59	74.66	265.93	none	98.2
MW45	01/10/05	308.05	37.65	270.4	none	72.3
MW46	01/10/05	374.40	NG	NG	none	NG
MW47	01/10/05	361.67	86.52	275.15	none	138.68
MW48	01/10/05	329.23	93.57	235.66	none	135.7
MW49	01/10/05	230.74	3.74	227	none	56
MW5	01/10/05	326.36	NG	NG	none	NG
MW50	01/10/05	346.22	86.5	259.72	none	164.3
MW51	01/10/05	346.55	NG	NG	none	NG
MW51A	01/10/05	346.55	83.85	262.7	none	173

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Six wells were not gauged (NG) during this event due to accessibility issues, or due to the collapse of the well.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness * product density)]}.

Product density has been assumed to be 0.866.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 1B
Summary of Groundwater Gauging Measurements: January 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW52	01/10/05	360.29	93.92	266.37	none	143
MW53	01/10/05	357.00	118.79	238.21	none	125.4
MW54	01/10/05	361.43	91.81	269.62	none	196.4
MW6	01/10/05	350.39	91.23	259.16	none	173.13
MW8	01/10/05	363.63	82.53	281.1	none	161.7
MW9	01/10/05	347.12	73.94	273.18	none	NG
OLD WW	01/10/05	350.00	84.66	265.34	none	NG
RW1	01/10/05	348.76	69.41	279.55	0.23	173.57
RW10	01/10/05	363.14	84.4	278.74	none	172.4
RW11	01/10/05	362.42	52.46	309.96	none	NG
RW12	01/10/05	363.16	92.27	270.94	0.06	167.35
RW13	01/10/05	360.21	90.2	270.01	none	143
RW14	01/10/05	362.07	93.49	268.58	none	152.5
RW15	01/10/05	362.07	81.35	280.72	none	NG
RW16	01/10/05	363.35	93.98	269.44	0.08	NG
RW17	01/10/05	341.80	78.18	263.67	0.06	NG
RW2	01/10/05	360.46	76.75	284.22	0.59	149.9
RW3	01/10/05	350.20	70	280.2	none	NG
RW4	01/10/05	362.96	99.15	267.22	3.94	NG
RW5	01/10/05	356.76	75.75	281.09	0.09	NG
RW6	01/10/05	358.63	80.4	280.48	2.6	91.2
RW7	01/10/05	360.11	71.4	288.71	none	NG
RW8	01/10/05	361.01	NG	NG	none	NG
RW8A	01/10/05	360.30	90.4	270.91	1.17	NG
RW9	01/10/05	363.67	53.05	310.72	0.11	117
TH36	01/10/05	361.15	58.78	302.37	none	NG
THBF	01/10/05	351.16	NG	NG	none	NG
THby4	01/10/05	373.37	92.43	281.14	0.23	NG
THWLS	01/10/05	373.47	93.04	280.43	none	NG
WW1P	01/10/05	350.00	84	266	none	NG

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Six wells were not gauged (NG) during this event due to accessibility issues, or due to the collapse of the well.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness *product density)]}.

Product density has been assumed to be 0.866.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 1C
Summary of Groundwater Gauging Measurements: April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW1	04/14/05	363.72	86.98	276.74	none	125.6
MW10	04/14/05	356.22	55.75	300.47	none	143.5
MW11	04/14/05	364.25	71.58	292.67	none	199.4
MW12	04/14/05	364.15	86.98	277.17	none	158
MW13	04/14/05	359.58	79.68	279.9	none	198
MW15	04/14/05	362.72	86.87	275.85	none	128
MW16	04/14/05	363.66	73.25	290.41	none	182
MW17	04/14/05	324.39	48.55	275.84	none	155.5
MW18	04/14/05	347.63	70.15	277.48	none	113.2
MW19	04/14/05	340.66	75.85	264.81	none	149.05
MW20	04/14/05	333.58	59.34	274.24	none	136.47
MW21	04/14/05	355.85	64.55	291.3	none	199
MW24	04/14/05	362.77	87.45	275.32	none	149.1
MW25	04/14/05	319.66	51.2	268.46	none	159.25
MW26	04/14/05	318.76	58.31	260.45	none	156
MW27	04/14/05	352.54	73.55	278.99	none	139.7
MW28A	04/14/05	344.27	41.6	302.87	0.23	NG
MW29	04/14/05	327.58	51.95	275.63	none	170
MW2A	04/14/05	354.33	72.77	281.56	none	127.8
MW3	04/14/05	339.68	67.75	271.93	none	117.35
MW30	04/14/05	290.67	49.7	240.97	none	77
MW31	04/14/05	368.09	83.64	284.45	none	173.24
MW32	04/14/05	367.37	87.97	279.4	none	134.2
MW33A	04/14/05	352.06	78.45	273.61	none	121.6
MW34	04/14/05	351.81	81.75	270.06	none	118.95
MW35	04/14/05	351.06	81.11	269.95	none	143.2
MW36	04/14/05	333.26	90.62	242.64	none	144.8
MW37	04/14/05	285.33	50.43	234.9	none	103.9
MW38	04/14/05	310.83	NG	NG	none	NG
MW39	04/14/05	341.81	61.35	280.46	none	134.2
MW4	04/14/05	317.20	79.48	237.72	none	127.6
MW40	04/14/05	347.85	70.3	277.55	none	138.1
MW41	04/14/05	347.91	64.79	283.12	none	145.8
MW42	04/14/05	345.57	68.02	277.55	none	122.85
MW43A	04/14/05	341.15	62.8	278.35	none	102.26
MW44	04/14/05	340.59	66.69	273.9	none	97.7
MW45	04/14/05	308.05	32.04	276.01	none	71.9
MW46	04/14/05	374.40	NG	NG	none	NG
MW47	04/14/05	361.67	79.35	282.32	none	138
MW48	04/14/05	327.00	88	241.23	none	135
MW49	04/14/05	230.74	2.9	227.84	none	56.2
MW5	04/14/05	326.36	NG	NG	none	NG
MW50	04/14/05	346.22	79	267.22	none	164.3
MW51	04/14/05	346.55	NG	NG	none	NG
MW51A	04/14/05	347.53	75.85	271.68	none	137.1

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Five wells were not gauged (NG) during this event due to accessibility issues or due to the collapse of the well.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness * product density)]}.

Product density has been assumed to be 0.866.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 1C
Summary of Groundwater Gauging Measurements: April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW52	04/14/05	360.29	85.41	274.88	none	173
MW53	04/14/05	357.00	110.79	246.21	none	163.8
MW54	04/14/05	361.43	83.65	277.78	none	124.5
MW6	04/14/05	350.39	82.64	267.75	none	195.1
MW8	04/14/05	363.63	74.37	289.26	none	174
MW9	04/14/05	347.12	67.75	279.37	none	188.2
OLD WW	04/14/05	350.00	76.75	277.26	none	NG
RW1	04/14/05	348.76	95.45	257.12	1.19	NG
RW10	04/14/05	363.14	73.68	289.46	none	172.45
RW11	04/14/05	362.42	44.9	317.52	none	171.8
RW12	04/14/05	363.16	84.55	278.62732	0.02	NG
RW13	04/14/05	360.21	81.8	278.41	none	167.35
RW14	04/14/05	362.07	85.77	276.3	none	143
RW15	04/14/05	362.07	73.85	288.22	none	165.5
RW16	04/14/05	363.35	85.98	277.43928	0.08	NG
RW17	04/14/05	341.80	70.8	272.41158	1.63	NG
RW2	04/14/05	360.46	76.52	284.49424	0.64	NG
RW3	04/14/05	350.20	64	286.2	none	149.6
RW4	04/14/05	362.96	86.71	276.57042	0.37	NG
RW5	04/14/05	356.76	66.76	292.91	0.01	NG
RW6	04/14/05	358.63	74.4	286.57	2.7	NG
RW7	04/14/05	360.11	76.75	283.39	0.04	91.2
RW8	04/14/05	361.01	129.74	231.35	0.09	NG
RW8A	04/14/05	360.30	140.1	220.4598	0.3	NG
RW9	04/14/05	363.67	52.37	311.46454	0.19	NG
TH36	04/14/05	361.15	56.3	304.85	none	117
THBF	04/14/05	351.16	NG	NG	none	NG
THby4	04/14/05	373.37	84.56	288.81	none	125.65
THWLS	04/14/05	373.47	85.35	288.12	none	89
WW1P	04/14/05	350.00	74.5	275.5	none	NG

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Five wells were not gauged (NG) during this event due to accessibility issues or due to the collapse of the well.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness *product density)]}.

Product density has been assumed to be 0.866.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 1D
Summary of Groundwater Gauging Measurements: July 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW1	07/12/05	363.72	96.18	267.54	none	127
MW10	07/12/05	356.22	75.59	280.63	none	143.5
MW11	07/12/05	364.25	77.46	286.79	none	198.5
MW12	07/12/05	364.15	95	269.21	0.07	NG
MW13	07/12/05	359.58	93.24	266.34	none	199.2
MW15	07/12/05	362.72	96.6	266.12	none	127.26
MW16	07/12/05	363.66	90.96	272.7	none	197.1
MW17	07/12/05	324.39	57.46	266.93	none	155.45
MW18	07/12/05	347.63	80	267.63	none	113.2
MW19	07/12/05	340.66	90.16	250.5	none	149
MW20	07/12/05	333.58	67.9	265.68	none	136.5
MW21	07/12/05	355.85	79.85	276	none	198.87
MW24	07/12/05	362.77	98.25	264.52	none	149
MW25	07/12/05	319.66	74.13	245.53	none	159.4
MW26	07/12/05	318.76	73.51	245.25	none	156.1
MW27	07/12/05	352.54	83.9	268.64	none	138.2
MW28A	07/12/05	344.27	58.25	286.15	0.15	NG
MW29	07/12/05	327.58	74.25	253.33	none	114
MW2A	07/12/05	354.33	93.27	261.06	none	128.9
MW3	07/12/05	339.68	77.4	262.28	none	117.2
MW30	07/12/05	290.67	56.94	233.73	none	91
MW31	07/12/05	368.09	94.6	273.49	none	173.25
MW32	07/12/05	367.37	97.51	269.86	none	134.2
MW33A	07/12/05	352.06	87.45	264.61	none	121.5
MW34	07/12/05	351.81	90.75	261.06	none	126.5
MW35	07/12/05	351.06	91.26	259.8	none	143.26
MW36	07/12/05	333.26	102.7	230.56	none	144.8
MW37	07/12/05	285.33	54.35	230.98	none	103.8
MW38	07/12/05	310.83	NG	NG	none	NG
MW39	07/12/05	341.81	76.61	265.2	none	134.1
MW4	07/12/05	317.20	86.45	230.75	none	127.6
MW40	07/12/05	347.85	79.4	268.45	none	138.03
MW41	07/12/05	347.91	77.01	270.9	none	145.72
MW42	07/12/05	345.57	75.8	269.77	none	127.3
MW43A	07/12/05	341.15	72.87	268.28	none	102.25
MW44	07/12/05	340.59	75.3	265.29	none	97.71
MW45	07/12/05	308.05	36.61	271.44	none	72
MW46	07/12/05	374.40	NG	NG	none	NG
MW47	07/12/05	361.67	92.48	269.19	none	138.55
MW48	07/12/05	329.23	96.2	233.03	none	135
MW49	07/12/05	230.74	4.01	226.73	none	56.2
MW5	07/12/05	326.36	NG	NG	none	NG
MW50	07/12/05	346.22	88.62	257.6	none	153.5
MW51	07/12/05	346.55	NG	NG	none	NG
MW51A	07/12/05	347.53	84.48	263.05	none	137.1

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Seven wells were not gauged (NG) during this event due to accessibility issues or due to the collapse of the well.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness * product density)]}.

Product density has been assumed to be 0.866.

* Upgrading activities commenced in July 2005, therefore, casing elevations have changed and have not been re-surveyed.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 1D
Summary of Groundwater Gauging Measurements: July 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

WELL ID	DATE	CASING ELEVATION (ft-AMSL)	DEPTH TO WATER (ft)	GW ELEVATION (ft-AMSL)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)
MW52	07/12/05	360.29	96.4	263.89	none	172.02
MW53	07/12/05	357.00	121.24	235.76	none	163.69
MW54	07/12/05	361.43	93.4	268.03	none	124.3
MW6	07/12/05	350.39	93.15	257.24	none	195
MW8	07/12/05	363.63	87.53	276.1	none	173
MW9	07/12/05	347.12	74.64	272.48	none	188.3
OLD WW	07/12/05	350.00	86.21	267.8	none	NG
RW1	07/12/05	348.76	71.2	278.35672	0.92	NG
RW10	07/12/05	363.14	90.36	272.78	none	172.2
RW11	07/12/05	362.42	71.76	290.66	none	171.5
RW12	07/12/05	363.16	94.95	268.24464	0.04	NG
RW13	07/12/05	360.21	93.41	266.8	none	166.36
RW14	07/12/05	362.07	95.27	266.8	none	142.02
RW15	07/12/05	362.07	87.63	274.44	none	165.4
RW16	07/12/05	363.35	95.85	267.6299	0.15	NG
RW17*	07/12/05	--	78.84	--	1.49	NG
RW2*	07/12/05	--	76.1	--	0.15	NG
RW3*	07/12/05	--	70.17	--	none	147.1
RW4*	07/12/05	--	93.6	--	0.5	NG
RW5	07/12/05	356.76	79.6	277.18598	0.03	NG
RW6*	07/12/05	--	81.77	--	2.55	NG
RW7*	07/12/05	--	76	--	0.29	NG
RW8	07/12/05	361.01	74.42	286.75454	0.19	NG
RW8A*	07/12/05	--	71.5	--	0.29	NG
RW9	07/12/05	363.67	56.87	306.82598	0.03	NG
TH36	07/12/05	361.15	66.66	294.49	none	116.4
THBF	07/12/05	351.16	NG	NG	none	NG
THby4	07/12/05	373.37	NG	NG	none	NG
THWLS	07/12/05	373.47	NG	NG	none	NG
WW1P	07/12/05	350.00	83.7	266.3	none	NG

NOTES:

Depths are presented in feet (ft) below casing elevation.

Elevations are presented in feet (ft) above mean sea level (AMSL).

Seven wells were not gauged (NG) during this event due to accessibility issues or due to the collapse of the well.

Correction calculation for wells with product = {well elevation - [depth to water - (product thickness *product density)]}.

Product density has been assumed to be 0.866.

* Upgrading activities commenced in July 2005, therefore, casing elevations have changed and have not been re-surveyed.

Depth to bottom was not gauged if product was encountered in the well.

TABLE 2A
Sample Summary for Groundwater Sampling: October 2004
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Sample ID	Date	Time	Duplicate	Sample Depth	Lab ID	Analysis	NonConformance
Passive Diffusion Bag Sampling							
MW04A	10/4/2004	8:45	N	96	M018	VO+10	(1, 2)
MW04B	10/4/2004	8:50	N	108	M018	VO+10	(1, 2)
MW04C	10/4/2004	8:55	N	120	M018	VO+10	(1, 2)
MW06A	10/4/2004	11:10	N	110	M018	VO+10	(1, 2)
MW06B	10/4/2004	11:15	N	145	M018	VO+10	(1, 2)
MW06C	10/4/2004	11:20	N	187	M018	VO+10	(1, 2)
MW12A	10/4/2004	11:45	N	110	M018	VO+10	(1, 2)
MW12B	10/4/2004	11:50	N	126	M018	VO+10	(1, 2)
MW16A	10/4/2004	10:30	N	130	M018	VO+10	(1, 2)
MW16AA	10/4/2004	10:50	Y	130	M018	VO+10	(1, 2)
MW16B	10/4/2004	10:35	N	155	M018	VO+10	(1, 2)
MW16C	10/4/2004	10:40	N	190	M018	VO+10	(1, 2)
MW32A	10/4/2004	11:30	N	118	M018	VO+10	(1, 2)
MW32B	10/4/2004	11:40	N	129	M018	VO+10	(1, 2)
MW33AA	10/4/2004	10:10	N	107	M018	VO+10	(1, 2)
MW33AB	10/4/2004	10:10	N	120	M018	VO+10	(1, 2)
MW33APA	10/4/2004	10:20	Y	107	M018	VO+10	(1, 2)
MW34A	10/4/2004	9:45	N	108	M018	VO+10	(1, 2)
MW34B	10/4/2004	9:48	N	118	M018	VO+10	(1, 2)
MW34C	10/4/2004	9:50	N	120	M018	VO+10	(1, 2)
MW35A	10/4/2004	9:40	N	122	M018	VO+10	(1, 2)
MW35B	10/4/2004	9:35	N	128	M018	VO+10	(1, 2)
MW37A	10/4/2004	9:30	N	60	M018	VO+10	(1, 2)
MW37B	10/4/2004	9:32	N	86	M018	VO+10	(1, 2)
MW37C	10/4/2004	9:35	N	98	M018	VO+10	(1, 2)
RW09A	10/4/2004	15:15	N	90	M018	VO+10	(1, 2)
RW09B	10/4/2004	15:20	N	118	M018	VO+10	(1, 2)
RW09C	10/4/2004	15:22	N	147	M018	VO+10	(1, 2)
RW09D	10/4/2004	15:25	N	160	M018	VO+10	(1, 2)
RW09E	10/4/2004	15:28	N	188	M018	VO+10	(1, 2)
RW11A	10/4/2004	13:25	N	115	M018	VO+10	(1, 2)
RW11B	10/4/2004	13:30	N	170	M018	VO+10	(1, 2)
RW14A	10/4/2004	11:25	N	118	M018	VO+10	(1, 2)
RW14B	10/4/2004	11:35	N	165	M018	VO+10	(1, 2)
RW15A	10/4/2004	13:40	N	113	M018	VO+10	(1, 2)
RW15B	10/4/2004	13:45	N	135	M018	VO+10	(1, 2)
RW15C	10/4/2004	13:50	N	156	M018	VO+10	(1, 2)
RW16A	10/4/2004	13:55	N	121	M018	VO+10	(1, 2)
RW16B	10/4/2004	14:00	N	141.5	M018	VO+10	(1, 2)
TH36A	10/4/2004	14:30	N	110	M018	VO+10	(1, 2)
THWLSA	10/4/2004	14:52	N	110	M018	VO+10	(1, 2)
F100404	10/4/2004	15:30	N	--	M018	VO+10	(1, 2)
T100404	10/4/2004	0:00	N	--	M018	VO+10	(1, 2)
Conventional Sampling							
RW10	10/5/2004	16:00	N	142	M217	VO+10, PP	(3)
MW18	10/6/2004	15:30	N	90	M217	VO+10, PP	(3, 5)
MW36	10/6/2004	13:00	N	110	M217	VO+10, PP	(3, 5)
MW4	10/6/2004	10:34	N	95	M217	PP Metals	(3, 5)
MW50	10/6/2004	16:20	N	95	M217	VO+10, PP	(3, 5)

Notes:

Sample Depths are reported in feet below top of well casing. For Passive Diffusion Bag samples, the sample depth reported is the PDB deployment depth.

VO+10 = Volatile Organic Compounds with a 10 forward library search via EPA Method 624

PP Metals (priority pollutant metals) were analyzed via EPA Methods 6010B and 200.7.

1 - M018 QA batch 6141: MS % recovery of Chloroethane is outside of Q.C. limits (sample amount is too high for spike level).

2 - M018 QA batch 6143: MS % recovery of Chloroethane is outside of Q.C. limits (sample amount is too high for spike level).

3 - M217 QA batch 6155: MS % recovery of Trichloroethene is outside of Q.C. limits (sample amount too high for spike level).

4 - M839 QA batch 6239: MS % recovery of 1,1,1-Trichloroethane is outside of Q.C. limits (sample amount is too high for spike level).

5 - Methylene Chloride and TICs were detected in the field blank, F100604.

6 - Zinc was detected in field blanks F101204, F101404, and F101804.

7 - Chromium and Nickel were detected in field blank F101304

8 - Methylene Chloride, TICs, zinc were detected in the field blank, F101504.

9 - Methylene Chloride was detected in the field blank, F102104.

TABLE 2A
Sample Summary for Groundwater Sampling: October 2004
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Sample ID	Date	Time	Duplicate	Sample Depth	Lab ID	Analysis	NonConformance
Conventional Sampling							
MW-19	10/7/2004	11:40	N	95	M448	VO+10, PP	--
MW-20	10/7/2004	15:15	N	85	M448	VO+10, PP	--
MW-48	10/7/2004	15:35	N	115	M448	VO+10, PP	--
MW-49	10/8/2004	15:40	N	6	M448	VO+10, PP	--
MW-52	10/8/2004	10:55	N	98	M448	VO+10, PP	--
MW-53	10/8/2004	14:10	N	125	M448	VO+10, PP	--
MW26	10/11/2004	15:25	N	90	M551	VO+10, PP	--
MW01	10/12/2004	15:25	N	99	M551	VO+10, PP	(6)
MW24	10/12/2004	12:00	N	100	M551	VO+10, PP	(6)
MW-30	10/13/2004	13:30	N	60	M839	VO+10, PP	(4, 7)
MW-30P	10/13/2004	13:35	Y	60	M839	VO+10, PP	(4, 7)
MW-47	10/13/2004	10:50	N	105	M839	VO+10, PP	(4, 7)
MW03	10/14/2004	10:20	N	80	M839	VO+10, PP	(4, 6)
MW-13	10/14/2004	16:24	N	105	M839	VO+10, PP	(4, 6)
MW-16	10/15/2004	11:42	N	155	M839	PP Metals	(4, 8)
MW-27	10/15/2004	15:15	N	85	M839	VO+10, PP	(4, 8)
MW-27P	10/15/2004	15:20	Y	85	M839	VO+10, PP	(4, 8)
MW15	10/18/2004	15:30	N	100	M955	VO+10, PP	--
MW54	10/18/2004	14:40	N	110	M955	VO+10, PP	--
MW02A	10/21/2004	13:45	N	130	N224	VO+10, PP	(9)
MW12	10/22/2004	9:30	N	127	N224	VO+10, PP	--
MW39	10/22/2004	13:00	N	133	N224	VO+10, PP	--
FB100504	10/5/2004	14:45	N	--	M217	VO+10, PP	(3)
T100504	10/5/2004	0:00	N	--	M217	VO+10	(3)
F100604	10/6/2004	16:40	N	--	M217	VO+10, PP	(3, 5)
F100604-Met	10/6/2004	16:40	N	--	M217	PP Metals	(3, 5)
F100704	10/7/2004	12:00	N	--	M551	VO+10, PP	--
F100804	10/8/2004	15:50	N	--	M448	VO+10, PP	--
T100704	10/8/2004	0:00	N	--	M448	VO+10	--
F101104	10/11/2004	10:30	N	--	M551	VO+10, PP	--
T101104	10/11/2004	0:00	N	--	M551	VO+10	--
F101204	10/12/2004	10:20	N	--	M551	VO+10, PP	(6)
F101304	10/13/2004	9:30	N	--	M839	VO+10, PP	(4, 7)
T101304	10/13/2004	0:00	N	--	M839	VO+10	(4)
F101404	10/14/2004	13:30	N	--	M839	VO+10, PP	(4, 6)
F101504	10/15/2004	13:10	N	--	M839	VO+10, PP	(4, 8)
F101804	10/18/2004	13:55	N	--	M955	VO+10, PP	--
T101804	10/18/2004	0:00	N	--	M955	VO+10	--
T101904	10/20/2004	0:00	N	--	N224	VO+10	--
F102104	10/21/2004	11:30	N	--	N224	VO+10, PP	(9)
F102204	10/22/2004	10:20	N	--	N224	VO+10, PP	--
Low Flow Sampling							
RW09	10/19/2004	11:40	N	119	M955	PP Metals	--
RW11	10/19/2004	9:25	N	120	M955	PP Metals	--
TH36	10/19/2004	14:40	N	110	M955	PP Metals	--
MW34	10/20/2004	15:00	N	100	N224	PP Metals	--
RW13	10/20/2004	11:40	N	105	N224	PP Metals	--
F101904	10/19/2004	14:15	N	--	M955	PP Metals	--
F102004	10/20/2004	8:50	N	--	N224	PP Metals	--

Notes:

Sample Depths are reported in feet below top of well casing. For Passive Diffusion Bag samples, the sample depth reported is the PDB deployment depth.

VO+10 = Volatile Organic Compounds with a 10 forward library search via EPA Method 624

PP Metals (priority pollutant metals) were analyzed via EPA Methods 6010B and 200.7.

1 - M018 QA batch 6141: MS % recovery of Chloroethane is outside of Q.C. limits (sample amount is too high for spike level).

2 - M018 QA batch 6143: MS % recovery of Chloroethane is outside of Q.C. limits (sample amount is too high for spike level).

3 - M217 QA batch 6155: MS % recovery of Trichloroethene is outside of Q.C. limits (sample amount too high for spike level).

4 - M839 QA batch 6239: MS % recovery of 1,1,1-Trichloroethane is outside of Q.C. limits (sample amount is too high for spike level).

5 - Methylene Chloride and TICs were detected in the field blank, F100604.

6 - Zinc was detected in field blanks F101204, F101404, and F101804.

7 - Chromium and Nickel were detected in field blank F101304

8 - Methylene Chloride, TICs, zinc were detected in the field blank, F101504.

9 - Methylene Chloride was detected in the field blank, F102104.

TABLE 2B
Sample Summary for Groundwater Sampling: April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Sample ID	Date	Time	Duplicate	Sample Depth	Lab ID	Analysis	NonConformance
Passive Diffusion Bag Sampling							
MW02AA	4/18/2005	10:15	N	120	W885	VO+10	--
MW03A	4/18/2005	10:30	N	115	W885	VO+10	--
MW13A	4/18/2005	14:35	N	157	W885	VO+10	--
MW13B	4/18/2005	14:40	N	189	W885	VO+10	--
MW27A	4/18/2005	14:25	N	137	W885	VO+10	--
MW32A	4/18/2005	14:05	N	118	W885	VO+10	--
MW32B	4/18/2005	14:10	N	129	W885	VO+10	--
MW33AA	4/18/2005	12:35	N	107	W885	VO+10	--
MW33AB	4/18/2005	12:40	N	120	W885	VO+10	--
MW34A	4/18/2005	12:05	N	108	W885	VO+10	--
MW34B	4/18/2005	12:10	N	113	W885	VO+10	--
MW34C	4/18/2005	12:15	N	120	W885	VO+10	--
MW35A	4/18/2005	11:30	N	122	W885	VO+10	--
MW35B	4/18/2005	11:35	N	128	W885	VO+10	--
MW35BP	4/18/2005	11:40	Y	128	W885	VO+10	--
MW37A	4/18/2005	11:15	N	60	W885	VO+10	--
MW37B	4/18/2005	11:20	N	86	W885	VO+10	--
MW37C	4/18/2005	11:25	N	98	W885	VO+10	--
MW4A	4/18/2005	10:45	N	96	W885	VO+10	--
MW4B	4/18/2005	10:50	N	108	W885	VO+10	--
MW4C	4/18/2005	10:55	N	120	W885	VO+10	--
MW50A	4/18/2005	11:55	N	152	W885	VO+10	--
MW51AA	4/18/2005	12:20	N	133	W885	VO+10	--
MW52A	4/18/2005	13:40	N	109	W885	VO+10	--
MW52B	4/18/2005	13:45	N	170	W885	VO+10	--
MW53A	4/18/2005	13:30	N	127	W885	VO+10	--
MW53B	4/18/2005	13:35	N	161	W885	VO+10	--
MW54A	4/18/2005	14:50	N	120	W885	VO+10	--
MW6A	4/18/2005	13:05	N	110	W885	VO+10	--
MW6B	4/18/2005	13:10	N	145	W885	VO+10	--
MW6C	4/18/2005	13:15	N	187	W885	VO+10	--
RW14A	4/18/2005	14:00	N	165	W885	VO+10	--
MW12A	4/19/2005	11:19	N	110	W965	VO+10	(1,2)
MW12B	4/19/2005	11:24	N	126	W965	VO+10	(1,2)
MW16A	4/19/2005	10:54	N	130	W965	VO+10	(1,2)
MW16B	4/19/2005	10:59	N	155	W965	VO+10	(1,2)
MW16BP	4/19/2005	11:02	Y	155	W965	VO+10	(1,2)
MW16C	4/19/2005	11:07	N	190	W965	VO+10	(1,2)
MW18A	4/19/2005	13:44	N	112	W965	VO+10	(1,2)
MW19A	4/19/2005	14:00	N	135	W965	VO+10	(1,2)
MW19B	4/19/2005	14:05	N	147	W965	VO+10	(1,2)
MW20A	4/19/2005	13:51	N	134	W965	VO+10	(1,2)
MW24A	4/19/2005	10:45	N	145	W965	VO+10	(1,2)
MW26A	4/19/2005	9:48	N	133	W965	VO+10	(1,2)
MW26B	4/19/2005	9:53	N	145	W965	VO+10	(1,2)
MW30A	4/19/2005	10:04	N	75	W965	VO+10	(1,2)
MW47A	4/19/2005	13:33	N	136.5	W965	VO+10	(1,2)
MW48A	4/19/2005	15:12	N	132	W965	VO+10	(1,2)
MW49A	4/19/2005	16:50	N	54	W965	VO+10	(1,2)
RW09A	4/19/2005	15:27	N	90	W965	VO+10	(1,2)
RW09B	4/19/2005	15:32	N	118	W965	VO+10	(1,2)
RW09C	4/19/2005	15:37	N	147	W965	VO+10	(1,2)
RW09D	4/19/2005	15:42	N	160	W965	VO+10	(1,2)
RW09E	4/19/2005	15:47	N	188	W965	VO+10	(1,2)
RW10A	4/19/2005	12:00	N	170	W965	VO+10	(1,2)

Notes:

Sample Depths are reported in feet below top of well casing. For Passive Diffusion Bag samples, the sample depth reported is the PDB deployment depth.

VO+10 = Volatile Organic Compounds with a 10 forward library search via EPA Method 624

PP Metals (priority pollutant metals) were analyzed via EPA Methods 6010B and 200.7.

1 - W965 QA batch 8071: MS % recovery of Chloroethane is outside of Q.C. limits (sample amount is too high for spike level).

2 - Methylene Chloride was detected in the field blank, F041905 and toluene in the trip blank.

3 - Methylene Chloride was detected in the field blank, F042905.

4 - Zinc was detected in field blank F042705.

TABLE 2B
Sample Summary for Groundwater Sampling: April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Sample ID	Date	Time	Duplicate	Sample Depth	Lab ID	Analysis	NonConformance
Passive Diffusion Bag Sampling							
RW11A	4/19/2005	9:30	N	115	W965	VO+10	(1,2)
RW11B	4/19/2005	9:35	N	170	W965	VO+10	(1,2)
RW15A	4/19/2005	12:55	N	113	W965	VO+10	(1,2)
RW15B	4/19/2005	13:00	N	135	W965	VO+10	(1,2)
RW15C	4/19/2005	13:05	N	156	W965	VO+10	(1,2)
RW16A	4/19/2005	13:12	N	121	W965	VO+10	(1,2)
RW16B	4/19/2005	13:17	N	141.5	W965	VO+10	(1,2)
RW16BP	4/19/2005	13:20	Y	141.5	W965	VO+10	(1,2)
TH36A	4/19/2005	10:20	N	110	W965	VO+10	(1,2)
THWLSA	4/19/2005	11:39	N	110	W965	VO+10	(1,2)
THWLSAP	4/19/2005	11:44	Y	110	W965	VO+10	(1,2)
F041805	4/18/2005	15:30	N	--	W885	VO+10	--
T041805	4/18/2005	0:00	N	--	W885	VO+10	--
F041905	4/19/2005	17:00	N	--	W965	VO+10	(1,2)
T041905	4/19/2005	0:00	N	--	W965	VO+10	(1,2)
Conventional Sampling							
MW01A	4/26/2005	15:15	N	92	X429	VO+10, PP	--
MW01PA	4/26/2005	15:20	Y	92	X429	VO+10, PP	--
MW15	4/26/2005	11:50	N	90	X429	VO+10	--
RW13	4/28/2005	12:10	N	117	X619	VO+10, PP	--
RW13P	4/28/2005	12:15	Y	117	X619	VO+10, PP	--
MW11	4/29/2005	12:00	N	85	X619	VO+10	(3)
F042605	4/26/2005	17:00	N	--	X429	VO+10, PP	--
T042605	4/26/2005	0:00	N	--	X429	VO+10	--
F042805	4/28/2005	15:30	N	--	X619	VO+10	--
T042805	4/29/2005	0:00	N	--	X619	VO+10	(3)
F042905	4/29/2005	13:00	N	--	X619	VO+10	(3)
T042705	4/29/2005	0:00	N	--	X619	VO+10	(3)
Low Flow Sampling							
MW3	4/20/2005	11:00	N	115	X238	PP Metals	--
MW35	4/20/2005	15:20	N	122	X238	PP Metals	--
MW4	4/20/2005	12:15	N	108	X238	PP Metals	--
MW34	4/21/2005	10:15	N	113	X238	PP Metals	--
MW39	4/21/2005	14:25	N	133	X238	PP Metals	--
MW51A	4/21/2005	11:55	N	135	X238	PP Metals	--
MW53	4/21/2005	16:15	N	127	X238	PP Metals	--
MW26	4/22/2005	14:20	N	153	X238	PP Metals	--
MW27	4/22/2005	10:40	N	137	X238	PP Metals	--
MW30	4/22/2005	12:15	N	75	X238	PP Metals	--
MW52	4/22/2005	9:00	N	109	X238	PP Metals	--
MW36	4/25/2005	10:25	N	125	X429	PP Metals	--
MW50	4/25/2005	16:15	N	152	X429	PP Metals	--
RW11	4/25/2005	11:45	N	120	X429	PP Metals	--
TH36	4/25/2005	14:20	N	110	X429	PP Metals	--
MW12	4/27/2005	14:00	N	127	X429	PP Metals	-4
MW16	4/27/2005	9:30	N	155	X429	PP Metals	-4
MW54	4/27/2005	11:10	N	120	X429	PP Metals	-4
RW09	4/27/2005	15:15	N	119	X429	PP Metals	-4
MW49	4/28/2005	15:00	N	54	X619	PP Metals	--
F042005	4/20/2005	15:45	N	--	X238	PP Metals	--
F042105	4/21/2005	16:30	N	--	X238	PP Metals	--
F042205	4/22/2005	14:45	N	--	X238	PP Metals	--
F042505	4/25/2005	16:35	N	--	X429	PP Metals	--
F042705	4/27/2005	15:30	N	--	X429	PP Metals	-4
F042805	4/28/2005	15:30	N	--	X619	PP Metals	--

Notes:

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VO+10 = Volatile Organic Compounds with a 10 forward library search via EPA Method 624

PP Metals (priority pollutant metals) were analyzed via EPA Methods 6010B and 200.7.

1 - W965 QA batch 8071: MS % recovery of Chloroethane is outside of Q.C. limits (sample amount is too high for spike level).

2 - Methylene Chloride was detected in the field blank, F041905 and toluene in the trip blank.

3 - Methylene Chloride was detected in the field blank, F042905.

4 - Zinc was detected in field blank F042705.

TABLE 3
QA/QC Analytical Results for October 2004 and April 2005: Volatile Organic Compounds
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Trip Blank			Field ID	T100404	T100504	T100704	T101104	T101304	T101804
Volatile Organic Compounds (VOCs)			Lab ID	569991	570697	571860	572344	574002	574576
(via EPA method 624)			Sample Date	10/4/2004	10/5/2004	10/8/2004	10/11/2004	10/13/2004	10/18/2004
Analyte	CAS_RN	GWQS							
1,1,1-Trichloroethane	71-55-6	30		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3		0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000		0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100		0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5		0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U
Total VOCs	--	--		ND	ND	ND	ND	ND	ND
Total Tics	--	100/500		ND	ND	ND	ND	ND	ND

Notes:

All results are reported in micrograms per liter (µg/L).

CAS_RN = Chemical Abstracts Service Registry Number

NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards

TICs = Tentatively Identified Compounds

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL).

ND = Not Detected

Bold indicates that the concentration exceeds the NJDEP GWQS.

TABLE 3
QA/QC Analytical Results for October 2004 and April 2005: Volatile Organic Compounds
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Trip Blank			Field ID	T101904	T041805	T041905	T042605	T042705	T042805
Volatile Organic Compounds (VOCs)			Lab ID	576537	625399	625791	628174	629047	629048
(via EPA method 624)			Sample Date	10/20/2004	4/18/2005	4/19/2005	4/26/2005	4/29/2005	4/29/2005
Analyte	CAS_RN	GWQS							
1,1,1-Trichloroethane	71-55-6	30		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1		0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.3 U
1,1,2-Trichloroethane	79-00-5	3		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50		0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U
1,1-Dichloroethylene	75-35-4	2		0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.4 U
1,2-Dichloroethane	107-06-2	2		0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U
1,2-Dichloropropane	78-87-5	1		0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U
2-Chloroethyl Vinyl Ether	110-75-8	100		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4		0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U
Bromomethane	74-83-9	10		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50		0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.4 U
Chloroethane	75-00-3	100		0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U
Chloroform	67-66-3	6		0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5 U
Chloromethane	74-87-3	30		0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U
cis-1,2-Dichloroethene	156-59-2	70		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA		0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U
Dibromochloromethane	124-48-1	10		0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U
Ethylbenzene	100-41-4	700		0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	3		0.9 U	0.9 U	0.9 U	0.9 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	1		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000		0.3 U	0.3 U	0.6	0.3 U	0.4 U	0.4 U
Total Xylenes	1330-20-7	1000		0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U
Trans-1,2-Dichloroethene	156-60-5	100		0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.4 U
trans-1,3-Dichloropropene	10061-02-6	NA		0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U
Trichloroethylene	79-01-6	1		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000		0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U
Vinyl Chloride	75-01-4	5		0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U
Total VOCs	--	--		ND	ND	0.6	ND	ND	ND
Total Tics	--	100/500		ND	ND	ND	ND	ND	ND

Notes:

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TABLE 3
QA/QC Analytical Results for October 2004 and April 2005: Volatile Organic Compounds
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field Blank	Field ID	F100404	FB100504	F100604	F100704	F100804	F101104
Volatile Organic Compounds (VOCs)	Lab ID	569997	570690	570695	572347	571864	572345
(via EPA method 624)	Sample Date	10/4/2004	10/5/2004	10/6/2004	10/7/2004	10/8/2004	10/11/2004
Analyte	CAS_RN	GWQS					
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	3.6	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	ND	ND	3.6	ND	ND
Total Tics	--	100/500	ND	ND	7.4	ND	ND

Notes:

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TABLE 3
QA/QC Analytical Results for October 2004 and April 2005: Volatile Organic Compounds
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field Blank	Field ID	F101204	F101304	F101404	F101504	F101804	F102104
Volatile Organic Compounds (VOCs)	Lab ID	572348	574003	574007	574011	574573	576533
(via EPA method 624)	Sample Date	10/12/2004	10/13/2004	10/14/2004	10/15/2004	10/18/2004	10/21/2004
Analyte	CAS_RN	GWQS					
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.6	0.3
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	ND	ND	ND	0.6	0.3
Total Tics	--	100/500	ND	ND	ND	3.5	ND

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TABLE 3
QA/QC Analytical Results for October 2004 and April 2005: Volatile Organic Compounds
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field Blank	Field ID	F041805	F041905	F042605	F042805	F042905
Volatile Organic Compounds (VOCs)	Lab ID	625398	625790	628173	629044	629046
(via EPA method 624)	Sample Date	4/18/2005	4/19/2005	4/26/2005	4/28/2005	4/29/2005
Analyte	CAS_RN	GWQS				
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.3 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.3 U
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.4 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.3 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.3 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.2 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.4 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.2 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.5 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.3 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.2 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.3 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.5 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.5 U
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.6	0.3 U	0.4 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.4 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.4 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.2 U
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.2 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.3 U
Total VOCs	--	--	ND	0.6	ND	ND
Total Tics	--	100/500	ND	ND	ND	ND

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TABLE 4
QA/QC Analytical Results for October 2004 and April 2005: Metals
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	F100604-Met	F100804	F101104	F101204	F101304	F101404
Metals			Lab ID	570696	571864	572345	572348	574003	574007
(via EPA Method 200 series)			Sample Date	10/6/2004	10/8/2004	10/11/2004	10/12/2004	10/13/2004	10/14/2004
Analyte	CAS_RN	GWQS							
Antimony	7440-36-0	20		3.9 U	3.9 U	3.9 U	3.9 U	5.8 U	5.8 U
Arsenic	7440-38-2	8		3.5 U	3.5 U	3.5 U	3.5 U	3.2 U	3.2 U
Beryllium	7440-41-7	20		0.1 U	0.1 U	0.1 U	0.1 U	0.3 U	0.3 U
Cadmium	7440-43-9	4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chromium	7440-47-3	100		2.8 U	2.8 U	2.8 U	2.8 U	1.7	1.6 U
Copper	7440-50-8	1000		3.1 U	3.1 U	3.1 U	3.1 U	3.7 U	3.7 U
Lead	7439-92-1	10		2.2 U	2.2 U	2.2 U	2.2 U	2.6 U	2.6 U
Mercury	7439-97-6	2		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100		3.9 U	3.9 U	3.9 U	3.9 U	2.6	2.4 U
Selenium	7782-49-2	50		4.7 U	4.7 U	4.7 U	4.7 U	4.2 U	4.2 U
Silver	7440-22-4	NA		0.8 U	0.8 U	0.8 U	0.8 U	1.4 U	1.4 U
Thallium	7440-28-0	10		4.4 U	4.4 U	4.4 U	4.4 U	4.7 U	4.7 U
Zinc	7440-66-6	5000		5.8 U	5.8 U	7.7	8.2	5.8 U	5.8

Notes:

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B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

TABLE 4
QA/QC Analytical Results for October 2004 and April 2005: Metals
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	F101504	F101804	F101904	F102004	F102204	F042005
Metals			Lab ID	574011	574573	574579	576531	576535	627153
(via EPA Method 200 series)			Sample Date	10/15/2004	10/18/2004	10/19/2004	10/20/2004	10/22/2004	4/20/2005
Analyte	CAS_RN	GWQS							
Antimony	7440-36-0	20		5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Arsenic	7440-38-2	8		3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Beryllium	7440-41-7	20		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium	7440-43-9	4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chromium	7440-47-3	100		1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Copper	7440-50-8	1000		3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Lead	7439-92-1	10		2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Mercury	7439-97-6	2		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Selenium	7782-49-2	50		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Silver	7440-22-4	NA		1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Thallium	7440-28-0	10		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Zinc	7440-66-6	5000		7.4	6.5 B	5.8 U	5.8 U	5.8 U	5.8 U

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TABLE 4
QA/QC Analytical Results for October 2004 and April 2005: Metals
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	F042105	F042205	F042505	F042605	F042705	F042805
Metals			Lab ID	627158	627163	628168	628173	628179	629044
(via EPA Method 200 series)			Sample Date	4/21/2005	4/22/2005	4/25/2005	4/26/2005	4/27/2005	4/28/2005
Analyte	CAS_RN	GWQS							
Antimony	7440-36-0	20		5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Arsenic	7440-38-2	8		3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Beryllium	7440-41-7	20		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium	7440-43-9	4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chromium	7440-47-3	100		1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Copper	7440-50-8	1000		3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Lead	7439-92-1	10		2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U
Mercury	7439-97-6	2		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Selenium	7782-49-2	50		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Silver	7440-22-4	NA		1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Thallium	7440-28-0	10		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Zinc	7440-66-6	5000		5.8 U	5.8 U	5.8 U	5.8 U	6	5.8 U

Notes:

All results are reported in micrograms per liter (µg/L).

CAS_RN = Chemical Abstracts Service Registry Number

NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL).

B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

TABLE 5
Summary of Passive Diffusion Bag Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID		MW02AA	MW03A	MW04A		MW04B		MW04C		MW06A	
			Lab ID		625352	625353	569962	625354	569963	625355	569964	625356	569975	625370
			Depth		120	115	96	96	108	108	120	120	110	110
Volatile Organic Compounds (VOCs)			Sample Date		4/18/2005	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005
(via EPA Method 624)			Sample Time		10:15	10:30	8:45	10:45	8:50	10:50	8:55	10:55	11:10	13:05
Analyte	CAS_RN	GWQS												
1,1,1-Trichloroethane	71-55-6	30			3.7	1.1	0.5	0.8	0.3 U	0.9	0.5	0.9	43	46
1,1,2,2-Tetrachloroethane	79-34-5	1			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50			0.4	2.9	1.2	0.5	1.3	0.6	1.2	1.1	11	12
1,1-Dichloroethylene	75-35-4	2			0.8	0.3 U	0.6	0.3 U	0.6	0.3 U	0.6	0.4	4.3	4
1,2-Dichloroethane	107-06-2	2			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70			0.4 U	1	69	1.1	76	1.4	78	57	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10			0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3			0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1			0.4 U	0.4 U	7.7	0.4 U	8.1	0.4 U	7.8	5	0.8	1
Toluene	108-88-3	1000			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000			0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100			0.3 U	0.3 U	0.4	0.3 U	0.5	0.3 U	0.5	0.7	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1			0.4 U	0.6	19	0.4	20	0.6	21	7.2	5.6	6.2
Trichlorofluoromethane	75-69-4	2000			1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5			0.4 U	0.4 U	33	0.4 U	37	0.4 U	39	9.9	0.4 U	0.4 U
Total VOCs	--	--			5.9	5.6	131.4	2.8	143.5	3.5	148.6	82.2	64.7	69.2
Total TICs	--	100/500			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results are reported in micrograms per liter (µg/L).

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number

NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards

TICs = Tentatively Identified Compounds

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL).

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Bold indicates that the concentration exceeds the NJDEP GWQS.

Underline indicates the MDL is greater than GWQS.

TABLE 5
Summary of Passive Diffusion Bag Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID		MW06B		MW06C		MW12A		MW12B		MW13A	MW13B
			Lab ID		569976	625371	569977	625372	569980	625767	569981	625768	625395	625396
			Depth		145	145	187	187	110	110	126	126	157	189
Volatile Organic Compounds (VOCs)			Sample Date		10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	4/18/2005	4/18/2005
(via EPA Method 624)			Sample Time		11:15	13:10	11:20	13:15	11:45	11:19	11:50	11:24	14:35	14:40
Analyte	CAS_RN	GWQS												
1,1,1-Trichloroethane	71-55-6	30	43	45	16	39			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	12	12	4.1	11			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	4.4	3.7	1.7	3.4			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U			0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U			0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.7	0.7	0.4 U	0.7			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	1.1	0.3 U	0.5	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U			0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	5.6	6	2.1	5.2			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U			0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	66.8	67.4	24.4	59.3			ND	ND	ND	ND	ND	ND
Total TICs	--	100/500	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND

Notes:

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TABLE 5
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Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID		MW16A		MW16AA		MW16B		MW16BP		MW16C		MW18A	
			Lab ID	Depth	569956	625763	569959	569957	625764	625765	569958	625766	569958	625766	625779	
			Sample Date	Sample Time	10/4/2004	4/19/2005	10/4/2004	10/4/2004	4/19/2005	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	4/19/2005	
Volatile Organic Compounds (VOCs) (via EPA Method 624)					10:30	10:54	10:50	10:35	10:59	11:02	10:40	11:07	10:40	11:07	13:44	
Analyte	CAS_RN	GWQS														
1,1,1-Trichloroethane	71-55-6	30														
1,1,2,2-Tetrachloroethane	79-34-5	1														
1,1,2-Trichloroethane	79-00-5	3														
1,1-Dichloroethane	75-34-3	50														
1,1-Dichloroethylene	75-35-4	2														
1,2-Dichloroethane	107-06-2	2														
1,2-Dichloropropane	78-87-5	1														
2-Chloroethyl Vinyl Ether	110-75-8	100														
Benzene	71-43-2	1														
Bromodichloromethane	75-27-4	1														
Bromoform	75-25-2	4														
Bromomethane	74-83-9	10														
Carbon tetrachloride	56-23-5	2														
Chlorobenzene	108-90-7	50														
Chloroethane	75-00-3	100														
Chloroform	67-66-3	6														
Chloromethane	74-87-3	30														
cis-1,2-Dichloroethene	156-59-2	70														
cis-1,3-Dichloropropene	10061-01-5	NA														
Dibromochloromethane	124-48-1	10														
Ethylbenzene	100-41-4	700														
Methylene Chloride	75-09-2	3														
Tetrachloroethene	127-18-4	1														
Toluene	108-88-3	1000														
Total Xylenes	1330-20-7	1000														
Trans-1,2-Dichloroethene	156-60-5	100														
trans-1,3-Dichloropropene	10061-02-6	NA														
Trichloroethylene	79-01-6	1														
Trichlorofluoromethane	75-69-4	2000														
Vinyl Chloride	75-01-4	5														
Total VOCs	--	--														
Total TICs	--	100/500														

Notes:

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TABLE 5
Summary of Passive Diffusion Bag Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	MW19A	MW19B	MW20A	MW24A	MW26A	MW26B	MW27A	MW30A
			Lab ID	625781	625782	625780	625762	625758	625759	625394	625760
			Depth	135	147	134	145	133	145	137	75
Volatile Organic Compounds (VOCs)			Sample Date	4/19/2005	4/19/2005	4/19/2005	4/19/2005	4/19/2005	4/19/2005	4/18/2005	4/19/2005
(via EPA Method 624)			Sample Time	14:00	14:05	13:51	10:45	9:48	9:53	14:25	10:04
Analyte	CAS_RN	GWQS									
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results are reported in micrograms per liter (µg/L).

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

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TICs = Tentatively Identified Compounds

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL).

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TABLE 5
Summary of Passive Diffusion Bag Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID		MW32A		MW32B		MW33AA		MW33AB		MW33APA
			Lab ID		569978	625392	569979	625393	569952	625368	569953	625369	569954
			Depth		118	118	129	129	107	107	120	120	107
Volatile Organic Compounds (VOCs)			Sample Date		10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004
(via EPA Method 624)			Sample Time		11:30	14:05	11:40	14:10	10:10	12:35	10:10	12:40	10:20
Analyte	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	4.7	3.9	4.9	3.6	3.5	3.2	2	1.9	3.4		
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
1,1-Dichloroethane	75-34-3	50	8.8	7.2	8.8	6.9	0.6	0.6	0.5	0.5	0.5		
1,1-Dichloroethylene	75-35-4	2	1.8	1.5	2	1.2	2.1	1.5	0.9	0.9	1.9		
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Chloroform	67-66-3	6	0.4	0.4	0.4	0.4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
cis-1,2-Dichloroethene	156-59-2	70	2.5	1.7	2.6	1.7	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U		
Tetrachloroethene	127-18-4	1	0.5	0.4 U	0.5	0.4 U	1.7	2.2	1.7	1.9	1.8		
Toluene	108-88-3	1000	0.5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Trichloroethylene	79-01-6	1	1.7	1.3	1.8	1.2	4.7	4.2	2.8	2.5	4.6		
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Total VOCs	--	--	20.9	16	21	15	12.6	11.7	7.9	7.7	12.2		
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND		

Notes:

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TABLE 5
Summary of Passive Diffusion Bag Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Volatile Organic Compounds (VOCs) (via EPA Method 624)	Field ID Lab ID Depth Sample Date Sample Time	GWQS	MW34A		MW34B		MW34C		MW35A		MW35B	
			569972	625364	569973	625365	569974	625366	569968	625360	569969	625361
			108	108	118	113	120	120	122	122	128	128
			10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005
Analyte	CAS_RN	GWQS	9:45	12:05	9:48	12:10	9:50	12:15	9:40	11:30	9:35	11:35
1,1,1-Trichloroethane	71-55-6	30	1.7	2.3	1.7	2	1.7	2.4	93	130	53	70
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.9 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	21	50	10	16
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.4	0.3 U	0.3 U	0.4	0.6	6.6	5.7	4.4	4.6
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4	0.8	0.9	0.4	0.7 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	1.8 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.4	0.9	0.5	0.7	1.2	1.8	2.2	3.3	1.3	2
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	1.3	2.3	1.4	1.9	2.4	3.4	8.4	11	5.9	6
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Total VOCs	--	--	3.4	5.9	3.6	5	6.5	9.1	131.6	200	74.6	98.6
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Phillipsburg, New Jersey

		Field ID	MW35BP	MW37A		MW37B		MW37C		MW47A	MW48A
		Lab ID	625362	569965	625357	569966	625358	569967	625359	625778	625783
		Depth	128	60	60	86	86	98	98	136.5	132
Volatile Organic Compounds (VOCs)		Sample Date	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	4/19/2005	4/19/2005
(via EPA Method 624)		Sample Time	11:40	9:30	11:15	9:32	11:20	9:35	11:25	13:33	15:12
Analyte	CAS_RN	GWQS									
1,1,1-Trichloroethane	71-55-6	30	74	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	16	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	4.2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.8	0.8	0.7	0.9	2.5	1.9	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	6.4	11	9.5	11	9.8	25	20	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	102.6	12.1	10.3	11.7	10.7	27.9	21.9	ND	ND
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND

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		Field ID	MW49A	MW50A	MW51AA	MW52A	MW52B	MW53A	MW53B	MW54A
		Lab ID	625789	625363	625367	625375	625390	625373	625374	625397
		Depth	54	152	133	109	170	127	161	120
Volatile Organic Compounds (VOCs)		Sample Date	4/19/2005	4/18/2005	4/18/2005	4/18/2005	4/18/2005	4/18/2005	4/18/2005	4/18/2005
(via EPA Method 624)		Sample Time	16:50	11:55	12:20	13:40	13:45	13:30	13:35	14:50
Analyte	CAS_RN	GWQS								
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.8	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.5	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	ND	0.8	ND	ND	ND	ND	0.5	ND
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number

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U - Indicates that the analyte was not detected at the Method Detection Limit (MDL).

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Underline indicates the MDL is greater than GWQS.

TABLE 5
Summary of Passive Diffusion Bag Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Volatile Organic Compounds (VOCs) (via EPA Method 624)	Field ID Lab ID Depth Sample Date Sample Time	GWQS	RW09A		RW09B		RW09C		RW09D		RW09E	
			569992	625784	569993	625785	569994	625786	569995	625787	569996	625788
			90	90	118	118	147	147	160	160	188	188
			10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005
Analyte	CAS_RN	GWQS	15:15	15:27	15:20	15:32	15:22	15:37	15:25	15:42	15:28	15:47
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.6 U	0.3 U	0.6 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.9 U	0.5 U	0.9 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.6 U	0.3 U	0.6 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.7 U	0.4 U	0.7 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	0.4	0.7 U	0.5	0.7	0.4	0.7	0.3 U	0.6	0.3 U	0.6
1,2-Dichloroethane	107-06-2	2	0.4 U	0.7 U	0.4 U	0.7 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.7 U	0.4 U	0.7 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.7 U	0.4 U	0.7 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.6 U	0.3 U	0.6 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.6 U	0.3 U	0.6 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.5 U	0.3 U	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.7 U	0.3 U	0.7 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.6 U	0.3 U	0.6 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.5 U	0.3 U	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.7 U	0.4 U	0.7 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.7 U	0.3 U	0.7 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.8 U	0.4 U	0.8 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	120	170	140	190	130	170	30	140	0.7	140
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.5 U	0.3 U	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.4 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.7 U	0.3 U	0.7 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	1.8 U	0.9 U	1.8 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.4	0.7 U	0.5	0.7 U	0.4 U	0.4	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.4	0.5 U	0.3 U	0.5 U	0.3 U	0.3 U	0.5	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.4 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	1.3	0.4	2.2	0.4	0.8	0.3 U	0.8	0.3 U	0.8
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.7 U	0.4 U	0.7 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	1	0.8	1.4	1.6	1.2	1.3	0.4 U	0.7	0.4 U	0.7
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.7 U	0.4 U	0.7 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	63	82	69	87	72	130	150	160	160	160
Total VOCs	--	--	185.2	254.1	211.8	281.5	204	303.2	180.5	302.1	160.7	302.1
Total TICs	--	100/500	ND	ND	ND	ND	ND	7	ND	4.6	ND	4

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			Field ID	RW10A		RW11A		RW11B		RW14A	RW14A	RW14B
			Lab ID	625771	569982	625756	569983	625757	569970	625391	569971	
			Depth	170	115	115	170	170	118	165	165	
Volatile Organic Compounds (VOCs)			Sample Date	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/18/2005	10/4/2004	
(via EPA Method 624)			Sample Time	12:00	13:25	9:30	13:30	9:35	11:25	14:00	11:35	
Analyte	CAS_RN	GWQS										
1,1,1-Trichloroethane	71-55-6	30	4.1	0.3 U	0.4	0.3 U	0.3 U	1	1	4.2		
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.5	3.5	3.8	8.5		
1,1-Dichloroethylene	75-35-4	2	1.6	0.3 U	0.3 U	0.6	0.9	0.8	0.7	1.8		
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3		
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	1	1.4	2.4		
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U		
Tetrachloroethene	127-18-4	1	0.4 U	1	1.6	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Toluene	108-88-3	1000	0.3 U	0.9	0.3 U	1.2	0.3 U	0.5	0.3	0.8		
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U		
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.7	0.8	1.7		
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U		
Total VOCs	--	--	5.7	1.9	2	1.8	1.4	7.5	8	19.7		
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND		

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Volatile Organic Compounds (VOCs) (via EPA Method 624)	Field ID Lab ID Depth Sample Date Sample Time	GWQS	RW15A		RW15B		RW15C		RW16A		RW16B	
			569984	625772	569985	625773	569986	625774	569987	625775	569988	625776
			113	113	135	135	156	156	121	121	141.5	141.5
			10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005
Analyte	CAS_RN	GWQS	13:40	12:55	13:45	13:00	13:50	13:05	13:55	13:12	14:00	13:17
1,1,1-Trichloroethane	71-55-6	30	0.8	0.8	0.9	0.7	0.8	0.7	68	160	78	87
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	<u>4.6 U</u>	<u>4.6 U</u>	<u>4.6 U</u>	<u>2.3 U</u>
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	2.8 U	4	2.8 U	2.9
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4	0.4 U	0.5	0.4 U	220	340	250	250
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	9.8	24	7.2	14
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	15	7.3	14	5.9
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	<u>3.7 U</u>	<u>3.7 U</u>	<u>3.7 U</u>	<u>1.8 U</u>
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	3.6 U	3.6 U	3.6 U	1.8 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	<u>3.1 U</u>	<u>3.1 U</u>	<u>3.1 U</u>	<u>1.6 U</u>
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	<u>2.9 U</u>	<u>2.9 U</u>	<u>2.9 U</u>	<u>1.4 U</u>
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	2.7 U	2.7 U	2.7 U	1.4 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	3.3 U	3.3 U	3.3 U	1.6 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	<u>3 U</u>	<u>3 U</u>	<u>3 U</u>	1.5 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	2.6 U	2.6 U	2.6 U	1.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	1100	790	1000	450
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	3.4 U	3.4 U	3.4 U	1.7 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	3.8 U	3.8 U	3.8 U	1.9 U
cis-1,2-Dichloroethene	156-59-2	70	3.5	1.1	4.8	1	5	1	3.5 U	16	3.5 U	11
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	2.7 U	2.7 U	2.7 U	1.4 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.1 U	2.1 U	2.1 U	1 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	3.3 U	3.3 U	3.3 U	1.6 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	<u>9.1 U</u>	<u>9.1 U</u>	<u>9.1 U</u>	12
Tetrachloroethene	127-18-4	1	4.5	2.9	2.8	1.5	2.5	1.8	<u>3.6 U</u>	<u>3.6 U</u>	<u>3.6 U</u>	<u>1.8 U</u>
Toluene	108-88-3	1000	0.3 U	0.3 U	0.9	0.3 U	0.8	0.3 U	2.7 U	2.7 U	3	1.4 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.8 U	1.8 U	1.8 U	0.9 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	3.3 U	3.3 U	3.3 U	1.6 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	3.5 U	3.5 U	3.5 U	1.8 U
Trichloroethylene	79-01-6	1	1.7	0.9	2.4	0.8	2.4	0.8	<u>4 U</u>	9.6	<u>4 U</u>	6.5
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	3.5 U	3.5 U	3.5 U	1.8 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	15	24	14	12
Total VOCs	--	--	10.5	5.7	12.2	4	12	4.3	1427.8	1374.9	1366.2	851.3
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number

NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards

TICs = Tentatively Identified Compounds

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ND = Not Detected

Bold indicates that the concentration exceeds the NJDEP GWQS.

Underline indicates the MDL is greater than GWQS.

TABLE 5
Summary of Passive Diffusion Bag Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

		Field ID	RW16BP	TH36A		THWLSA		THWLSAP
		Lab ID	625777	569989	625761	569990	625769	625770
		Depth	141.5	110	110	110	110	110
Volatile Organic Compounds (VOCs)		Sample Date	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	4/19/2005
(via EPA Method 624)		Sample Time	13:20	14:30	10:20	14:52	11:39	11:44
Analyte	CAS_RN	GWQS						
1,1,1-Trichloroethane	71-55-6	30	130	2.5	1.8	31	14	14
1,1,2,2-Tetrachloroethane	79-34-5	1	<u>4.6 U</u>	0.5 U	0.5 U	0.9 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	3.1	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	340	4	2	120	18	18
1,1-Dichloroethylene	75-35-4	2	23	0.3 U	0.3 U	6.4	1	1.1
1,2-Dichloroethane	107-06-2	2	7.1	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	<u>3.7 U</u>	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	<u>3.6 U</u>	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Benzene	71-43-2	1	<u>3.1 U</u>	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	<u>2.9 U</u>	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
Bromoform	75-25-2	4	<u>2.7 U</u>	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	<u>3.3 U</u>	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	<u>3 U</u>	0.3 U	0.3 U	0.6 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	<u>2.6 U</u>	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	740	0.4 U	0.4 U	22	3.2	3.1
Chloroform	67-66-3	6	<u>3.4 U</u>	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	<u>3.8 U</u>	0.4 U	0.4 U	0.8 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	15	0.4 U	29	1.4	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	<u>2.7 U</u>	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	<u>2.1 U</u>	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	<u>3.3 U</u>	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	<u>9.1 U</u>	0.9 U	0.9 U	1.8 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	<u>3.6 U</u>	0.4	6.8	0.7 U	0.4 U	0.4 U
Toluene	108-88-3	1000	<u>2.7 U</u>	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	<u>1.8 U</u>	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	<u>3.3 U</u>	0.3 U	0.3 U	0.7 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	<u>3.5 U</u>	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	8	0.4 U	4.7	0.8 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	<u>3.5 U</u>	0.4 U	0.4 U	0.7 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	22	0.4 U	0.4 U	4.3	0.4 U	0.4 U
Total VOCs	--	--	1288.2	6.9	44.3	185.1	36.2	36.2
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND

Notes:

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Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	MW01		MW01PA	MW02A	MW03	MW11	MW-13
			Lab ID	572350	628172	628181	576532	574008	629045	574009
			Depth	99	92	92	130	80	85	105
Volatile Organic Compounds (VOCs)			Sample Date	10/12/2004	4/26/2005	4/26/2005	10/21/2004	10/14/2004	4/29/2005	10/14/2004
(via EPA Method 624)			Sample Time	15:25	16:45	16:50	13:45	10:20	12:00	16:24
Analyte	CAS_RN	GWQS								
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.3 U	0.3 U	5.1	0.3 U	2	0.3 U	
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.5 U	
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	1.2	0.4 U	
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.6	0.3 U	0.4	0.3 U	
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U	0.4 U	
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.4 U	
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.4 U	
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	2.4	0.4 U	
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.5 U	0.9 U	
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	2	0.4 U	
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4	0.4 U	
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	1.2	0.4 U	0.2 U	0.4 U	
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.4 U	
Total VOCs	--	--	ND	ND	ND	6.9	ND	8.4	ND	
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	

Notes:

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TABLE 6
Summary of Conventional Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			MW15		MW18	MW-19	MW-20	MW24	MW26
Field ID	Lab ID	Depth	574575	628170	570693	571861	571862	572349	572346
			100	90	90	95	85	100	90
Sample Date	Sample Date	Sample Date	10/18/2004	4/26/2005	10/6/2004	10/7/2004	10/7/2004	10/12/2004	10/11/2004
Sample Time	Sample Time	Sample Time	15:30	11:50	15:30	11:40	15:15	12:00	15:25
Volatile Organic Compounds (VOCs) (via EPA Method 624)									
Analyte	CAS_RN	GWQS							
1,1,1-Trichloroethane	71-55-6	30	3.5	3.3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	5.8	4.8	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	1.2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	3.9	2.5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.9	0.8	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	1	0.9	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	16.6	13.3	ND	ND	ND	ND	ND
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	53.7

Notes:

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TABLE 6
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Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	MW-27	MW-27P	MW-30	MW-30P	MW-47	MW-48	MW-49
			Lab ID	574012	574013	574005	574006	574004	571863	571867
			Depth	85	85	60	60	105	115	6
Volatile Organic Compounds (VOCs)			Sample Date	10/15/2004	10/15/2004	10/13/2004	10/13/2004	10/13/2004	10/7/2004	10/8/2004
(via EPA Method 624)			Sample Time	15:15	15:20	13:30	13:35	10:50	15:35	15:40
Analyte	CAS_RN	GWQS								
1,1,1-Trichloroethane	71-55-6	30	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Total VOCs	--	--	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs	--	100/500	ND	ND	ND	ND	69.5	ND	ND	ND

Notes:

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ND = Not Detected

Bold indicates that the concentration exceeds the NJDEP GWQS.

TABLE 6
Summary of Conventional Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	MW50	MW-52	MW-53	MW54	RW10	RW13	RW13P
			Lab ID	570692	571865	571866	574574	570689	629041	629042
			Depth	95	98	125	110	142	117	117
Volatile Organic Compounds (VOCs)			Sample Date	10/6/2004	10/8/2004	10/8/2004	10/18/2004	10/5/2004	4/28/2005	4/28/2005
(via EPA Method 624)			Sample Time	16:20	10:55	14:10	14:40	16:00	12:10	12:15
Analyte	CAS_RN	GWQS								
1,1,1-Trichloroethane	71-55-6	30	1.4	0.3 U	0.3 U	1.7	4.1	4.8	4.7	
1,1,2,2-Tetrachloroethane	79-34-5	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.3 U	
1,1,2-Trichloroethane	79-00-5	3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
1,1-Dichloroethane	75-34-3	50	0.4 U	0.4 U	0.4 U	0.8	0.4 U	1.3	1.4	
1,1-Dichloroethylene	75-35-4	2	0.3 U	0.3 U	0.3 U	0.4	0.6	1.8	1.9	
1,2-Dichloroethane	107-06-2	2	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U	
1,2-Dichloropropane	78-87-5	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U	
2-Chloroethyl Vinyl Ether	110-75-8	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Benzene	71-43-2	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Bromodichloromethane	75-27-4	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Bromoform	75-25-2	4	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U	
Bromomethane	74-83-9	10	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Carbon tetrachloride	56-23-5	2	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Chlorobenzene	108-90-7	50	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.4 U	
Chloroethane	75-00-3	100	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	
Chloroform	67-66-3	6	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5 U	
Chloromethane	74-87-3	30	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U	
cis-1,2-Dichloroethene	156-59-2	70	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
cis-1,3-Dichloropropene	10061-01-5	NA	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.2 U	0.2 U	
Dibromochloromethane	124-48-1	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.3 U	
Ethylbenzene	100-41-4	700	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5 U	
Methylene Chloride	75-09-2	3	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.5 U	0.5 U	
Tetrachloroethene	127-18-4	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	1.6	1.8	
Toluene	108-88-3	1000	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.4 U	
Total Xylenes	1330-20-7	1000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	
Trans-1,2-Dichloroethene	156-60-5	100	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U	0.4 U	
trans-1,3-Dichloropropene	10061-02-6	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	
Trichloroethylene	79-01-6	1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.6	0.6	
Trichlorofluoromethane	75-69-4	2000	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.6	0.5	
Vinyl Chloride	75-01-4	5	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U	
Total VOCs	--	--	1.4	ND	ND	2.9	4.7	10.7	10.9	
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	

Notes:

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TABLE 7
Summary of Metals Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	MW01		MW01PA	MW03		MW4		MW12	
			Lab ID	572350	628171	628180	574008	627150	570691	627151	576534	628177
			Depth	99	92	92	80	115	95	108	127	127
Metals (via EPA Method 200 series)			Sample Date	10/12/2004	4/26/2005	4/26/2005	10/14/2004	4/20/2005	10/6/2004	4/20/2005	10/22/2004	4/27/2005
			Sample Time	15:25	15:15	15:20	10:20	11:00	10:34	12:15	9:30	14:00
Analyte	CAS_RN	GWQS										
Antimony	7440-36-0	20	3.9 U	5.8 U	5.8 U	5.8 U	5.8 U	3.9 U	5.8 U	5.8 U	5.8 U	
Arsenic	7440-38-2	8	3.5 U	3.2 U	3.2 U	3.2 U	3.2 U	3.5 U	3.2 U	3.2 U	3.2 U	
Beryllium	7440-41-7	20	0.1 U	0.3 U	0.3 U	0.3 U	0.3 U	0.1 U	0.3 U	0.3 U	0.3 U	
Cadmium	7440-43-9	4	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Chromium	7440-47-3	100	3.1	2	1.6 U	4.4	3.7 B	2.8 U	1.6 U	1.6 U	1.6 U	
Copper	7440-50-8	1000	3.1 U	3.7 U	3.7 U	4	3.7 U	5	3.7 U	3.7 U	3.7 U	
Lead	7439-92-1	10	2.2 U	2.6 U	2.6 U	2.6 U	2.6 U	2.2 U	2.6 U	2.6 U	2.6 U	
Mercury	7439-97-6	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Nickel	7440-02-0	100	3.9 U	2.4 U	2.4 U	3.8	2.4 U	3.9 U	3.9 B	2.4 U	2.4 U	
Selenium	7782-49-2	50	4.7 U	4.2 U	4.2 U	4.2 U	4.2 U	4.7 U	14.6	4.2 U	4.2 U	
Silver	7440-22-4	NA	0.8 U	1.4 U	1.4 U	1.4 U	1.4 U	0.8 U	1.4 U	1.4 U	1.4 U	
Thallium	7440-28-0	10	4.4 U	4.7 U	4.7 U	4.7 U	4.7 U	4.4 U	4.7 U	4.7 U	4.7 U	
Zinc	7440-66-6	#N/A	13.6	9.6	5.8 U	7.2	6.8 B	6.3	7.5 B	5.8 U	5.8 U	

NOTES:

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Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Analyte	CAS_RN	GWQS									
Antimony	7440-36-0	20	5.8 U	5.8 U	3.9 U	5.8 U	6	5.8 U	5.8 U	5.8 U	5.8 U
Arsenic	7440-38-2	8	3.2 U	3.2 U	6.7	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Beryllium	7440-41-7	20	0.3 U	0.3 U	0.1 U	0.38 B	0.3 U	0.3 U	0.3 U	0.3 U	0.37 B
Cadmium	7440-43-9	4	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chromium	7440-47-3	100	1.6 U	1.6 U	2.8 U	1.6 U	2.8	2.1 B	2.4	2.3	4.3 B
Copper	7440-50-8	1000	3.7 U	3.7 U	3.1 U	3.7 U	3.7 U	3.7 U	3.7 U	3.8	
Lead	7439-92-1	10	2.6 U	2.6 U	2.2 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Mercury	7439-97-6	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100	2.4 U	2.4 U	3.9 U	2.4 U	3	2.4 U	2.7	2.7	3.3 B
Selenium	7782-49-2	50	4.2 U	4.2 U	4.7 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Silver	7440-22-4	NA	1.4 U	1.4 U	0.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Thallium	7440-28-0	10	4.7 U	4.7 U	4.4 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Zinc	7440-66-6	#N/A	7.2	5.8 U	7.5	5.8 U	9.7	5.8 U	8.6	12.3	5.8 U

NOTES:

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TABLE 7
Summary of Metals Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

			Field ID	MW-30P	MW34		MW35	MW36		MW39	
			Lab ID	574006	576530	627154	627152	570694	628164	576536	627156
			Depth	60	100	113	122	110	125	133	133
			Sample Date	10/13/2004	10/20/2004	4/21/2005	4/20/2005	10/6/2004	4/25/2005	10/22/2004	4/21/2005
Metals (via EPA Method 200 series)			Sample Time	13:35	15:00	10:15	15:20	13:00	10:25	13:00	14:25
Analyte	CAS_RN	GWQS									
Antimony	7440-36-0	20	5.8 U	5.8 U	5.8 U	5.8 U	3.9 U	5.8 U	5.8 U	5.8 U	
Arsenic	7440-38-2	8	3.2 U	3.2 U	3.2 U	3.2 U	3.5 U	3.2 U	3.2 U	3.2 U	
Beryllium	7440-41-7	20	0.3 U	0.3 U	0.3 U	0.3 U	0.1 U	0.3 U	0.3 U	0.52 B	
Cadmium	7440-43-9	4	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Chromium	7440-47-3	100	2	2.7	6.4 B	2.9 B	2.8 U	2.9	21.3	19.5	
Copper	7440-50-8	1000	3.7 U	3.7 U	3.7 U	3.7 U	3.1 U	3.7 U	3.7 U	6.4 B	
Lead	7439-92-1	10	2.6 U	2.6 U	2.6 U	2.6 U	2.2 U	2.6 U	2.6 U	3	
Mercury	7439-97-6	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Nickel	7440-02-0	100	2.6	2.4 U	3.2 B	2.4 U	3.9 U	2.4 U	15.6	13.3 B	
Selenium	7782-49-2	50	4.2 U	4.2 U	4.2 U	4.2 U	4.7 U	4.2 U	4.2 U	4.2 U	
Silver	7440-22-4	NA	1.4 U	1.4 U	1.4 U	1.4 U	0.8 U	1.4 U	1.4 U	1.4 U	
Thallium	7440-28-0	10	4.7 U	4.7 U	4.7 U	4.7 U	4.4 U	4.7 U	4.7 U	4.7 U	
Zinc	7440-66-6	#N/A	9.5	6	5.8 U	5.8 U	10.7	5.8 U	13	14.5 B	

NOTES:

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TABLE 7
Summary of Metals Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Metals (via EPA Method 200 series)	Field ID Lab ID Depth Sample Date Sample Time	CAS_RN GWQS	MW49		MW50		MW51A	MW52	MW53	MW54	
			571867	629043	570692	628167	627155	627159	627157	574574	628176
			6	54	95	152	135	109	127	110	120
			10/8/2004	4/28/2005	10/6/2004	4/25/2005	4/21/2005	4/22/2005	4/21/2005	10/18/2004	4/27/2005
			15:40	15:00	16:20	16:15	11:55	9:00	16:15	14:40	11:10
Analyte											
Antimony		7440-36-0	20		3.9 U	5.8 U	3.9 U	5.8 U	5.8 U	5.8 U	5.8 U
Arsenic		7440-38-2	8		3.5 U	3.2 U	3.5 U	3.2 U	3.2 U	3.2 U	3.2 U
Beryllium		7440-41-7	20		0.1 U	0.3 U	0.1 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium		7440-43-9	4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chromium		7440-47-3	100		2.8 U	1.6 U	3.8	13	10.7	1.6 U	2
Copper		7440-50-8	1000		6.4	3.7 U	9.4	6	3.7 U	3.7 U	3.7 U
Lead		7439-92-1	10		2.2 U	2.7 U	2.2 U	2.6 U	2.6 U	2.6 U	2.6 U
Mercury		7439-97-6	2		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel		7440-02-0	100		12.9	2.4 U	3.9 U	9.6	2.4 U	19.4 B	2.4 U
Selenium		7782-49-2	50		4.7 U	4.2 U	4.7 U	4.2 U	4.2 U	4.2 U	4.2 U
Silver		7440-22-4	NA		0.8 U	1.4 U	0.8 U	1.4 U	1.4 U	1.4 U	1.4 U
Thallium		7440-28-0	10		4.4 U	4.7 U	4.4 U	4.7 U	4.7 U	4.7 U	4.7 U
Zinc		7440-66-6	#N/A		6.7	5.8 U	7.1	11	5.8 U	5.8 U	8.9 B

NOTES:

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TABLE 7
Summary of Metals Analytical Results October 2004 and April 2005
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

		Field ID	RW09		RW11		RW13		RW13P	TH36	
		Lab ID	574578	628178	574577	628165	576529	629041	629042	574580	628166
		Depth	119	119	120	120	105	90	90	110	110
		Sample Date	10/19/2004	4/27/2005	10/19/2004	4/25/2005	10/20/2004	4/28/2005	4/28/2005	10/19/2004	4/25/2005
		Sample Time	11:40	15:15	9:25	11:45	11:40	12:10	12:15	14:40	14:20
Metals	(via EPA Method 200 series)										
Analyte	CAS_RN	GWQS									
Antimony	7440-36-0	20	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Arsenic	7440-38-2	8	3.2 U	4.4	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Beryllium	7440-41-7	20	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium	7440-43-9	4	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chromium	7440-47-3	100	1.6 U	1.6 U	68.7	54	9.9	5	5.7	12.1	8.1
Copper	7440-50-8	1000	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Lead	7439-92-1	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.7 U	2.7 U	2.6 U	2.6 U
Mercury	7439-97-6	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100	2.4 U	2.4 U	2.4 U	5.3	3.2	2.4 U	2.4 U	9.4 B	5.9
Selenium	7782-49-2	50	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.4	4.2 U	4.2 U
Silver	7440-22-4	NA	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Thallium	7440-28-0	10	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Zinc	7440-66-6	#N/A	82	121	17.4 B	13.3	9.5	71	76	9.1 B	18.8

NOTES:

All results are reported in micrograms per liter (µg/L).

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number

NJDEP GWQS = New Jersey Department of Environmental Protection Groundwater Quality Standards

U - Indicates that the analyte was not detected at the Method Detection Limit (MDL).

B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

TABLE 8
Summary of Physical Parameters Measured During the October 2004 and April 2005 Groundwater Sampling Events
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Well ID	Date	pH	Conductivity (S/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft)	Sampling Method
MW01	10/12/04	8.61	0.404	53.2	10.75	14.41	239	95.50	Conventional
MW2A	10/21/04	8.26	0.640	0	2.70	15.78	174	126.30	Conventional
MW03	10/14/04	7.72	1.090	10.6	3.89	13.48	247	75.60	Conventional
MW04	10/6/04	7.08	1.440	4.7	2.02	13.88	211	89.82	Conventional
MW12	10/22/04	7.38	0.900	0	4.89	14.41	-17	95.78	Low Flow
MW13	10/14/04	7.38	1.510	3.30	1.60	14.41	221	100.90	Conventional
MW15	10/18/04	7.86	1.200	4.50	4.50	15.65	159	95.53	Conventional
MW16	10/15/04	8.45	0.889	7.50	6.22	16.05	179	146.71	Conventional
MW18	10/6/04	7.94	0.535	156	11.23	14.30	35	84.69	Conventional
MW19	10/7/04	7.75	0.685	2.10	5.49	15.42	263	85.21	Conventional
MW20	10/7/04	7.58	0.626	75.20	2.24	14.50	-131	66.37	Conventional
MW24	10/12/04	7.54	1.810	0.00	11.26	15.81	283	96.95	Conventional
MW26	10/11/04	7.37	0.671	28.10	2.03	14.34	-138	85.75	Conventional
MW27	10/15/04	8.43	0.896	4.70	3.07	14.36	170	82.18	Conventional
MW30	10/13/04	7.39	0.556	0.00	5.82	13.84	172	57.32	Conventional
MW34	10/20/04	7.79	0.840	4.30	6.19	15.40	242	89.75	Conventional
MW36	10/6/04	7.63	0.612	111.00	10.76	15.79	241	105.15	Conventional
MW39	10/22/04	8.18	0.518	320.00	8.90	12.96	68	76.19	Low Flow
MW47	10/13/04	7.05	0.857	31.40	4.84	12.63	291	100.20	Conventional
MW48	10/7/04	7.73	0.614	13.60	9.15	16.33	159	113.50	Conventional
MW49	10/8/04	7.88	0.569	11.80	8.15	13.38	193	4.06	Conventional
MW50	10/6/04	7.95	0.844	9.10	8.56	15.45	208	90.00	Conventional
MW52	10/8/04	7.09	0.537	5.00	3.61	16.07	247	94.12	Conventional
MW53	10/5/04	7.04	1.500	183.00	1.89	19.36	-59	122.94	Conventional
MW54	10/18/04	8.28	0.857	0.00	2.40	17.55	-50	108.92	Conventional
RW09	10/19/04	8.10	0.830	error	0.39	17.62	-182	60.80	Low Flow
RW10	10/5/04	7.17	1.800	79.40	5.68	18.71	227	134.60	Conventional
RW11	10/19/04	8.72	1.200	12.40	4.95	17.01	202	62.46	Low Flow
RW13	10/20/04	7.80	0.950	3.60	5.08	15.25	0	124.80	Conventional
TH36	10/19/04	8.09	0.864	26.20	6.22	19.00	41	61.71	Low Flow

Notes:

All reported values are from last reading.

S/cm - Siemens per centimeter

NTU - Nephelometric Turbidity

mg/L - milligrams per Liter

°C - Temperature in degrees Celsius

ORP - Oxidation-Reduction Potential

mV - milliVolts

DTW - Depth to Water, ft - feet below top of casing

error - Instrument reported an "error" reading.

--- = Not measured

TABLE 8
Summary of Physical Parameters Measured During the October 2004 and April 2005 Groundwater Sampling Events
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Well ID	Date	pH	Conductivity (S/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft)	Sampling Method
MW01	4/26/05	8.33	0.256	77.3	9.91	14.57	131	88.20	Low Flow
MW03	4/20/05	6.85	0.879	19.7	2.10	14.77	147	68.95	Low Flow
MW04	4/20/05	6.71	1.630	5.6	0.00	16.74	109	80.85	Low Flow
MW11	4/29/05	6.94	0.775	9.3	4.68	18.54	179	85.00	Conventional
MW12	4/27/05	7.22	0.796	10.3	1.18	14.26	-63	88.35	Low Flow
MW15	4/26/05	7.00	1.130	24.10	2.13	16.67	157	86.20	Conventional
MW16	4/27/05	7.32	0.786	30.10	2.61	16.22	123	83.47	Low Flow
MW26	4/22/05	6.97	0.688	29.40	0.00	14.23	-99	64.08	Low Flow
MW27	4/22/05	7.39	0.697	10	0.00	14.60	88	74.70	Low Flow
MW30	4/22/05	7.35	0.601	9.10	1.83	14.61	89	53.20	Low Flow
MW34	4/21/05	7.14	0.687	156.00	5.11	16.93	89	83.08	Low Flow
MW35	4/20/05	6.96	0.850	27.30	4.83	15.36	123	82.33	Low Flow
MW36	4/25/05	7.18	0.631	38.10	9.63	13.68	141	93.56	Low Flow
MW39	4/21/05	7.40	0.476	75.20	8.46	12.99	91	67.48	Low Flow
MW49	4/28/05	7.59	0.568	0.00	6.18	11.82	82	3.90	Low Flow
MW50	4/25/05	6.85	0.927	139.00	4.56	15.55	100	83.01	Low Flow
MW51A	4/21/05	7.31	0.684	26.20	4.13	14.83	50	76.70	Low Flow
MW52	4/22/05	7.10	0.545	40.10	0.94	16.83	141	86.88	Low Flow
MW53	4/21/05	6.72	1.600	9.90	0.00	17.76	-16	113.50	Low Flow
MW54	4/27/05	7.35	0.832	15.80	0.00	18.87	-87	87.10	Low Flow
RW09	4/27/05	7.23	0.954	677.00	0.00	17.91	-148	*---	Low Flow
RW11	4/25/05	7.74	1.180	6.80	4.83	17.13	83	59.33	Low Flow
RW13	4/29/05	7.18	0.897	2.40	9.35	18.01	187	117.00	Conventional
TH36	4/25/05	7.23	0.813	19.30	2.14	18.85	77	63.00	Low Flow

Notes:

All reported values are from last reading.

S/cm - Siemens per centimeter

NTU - Nephelometric Turbidity

mg/L - milligrams per Liter

°C - Temperature in degrees Celsius

ORP - Oxidation-Reduction Potential

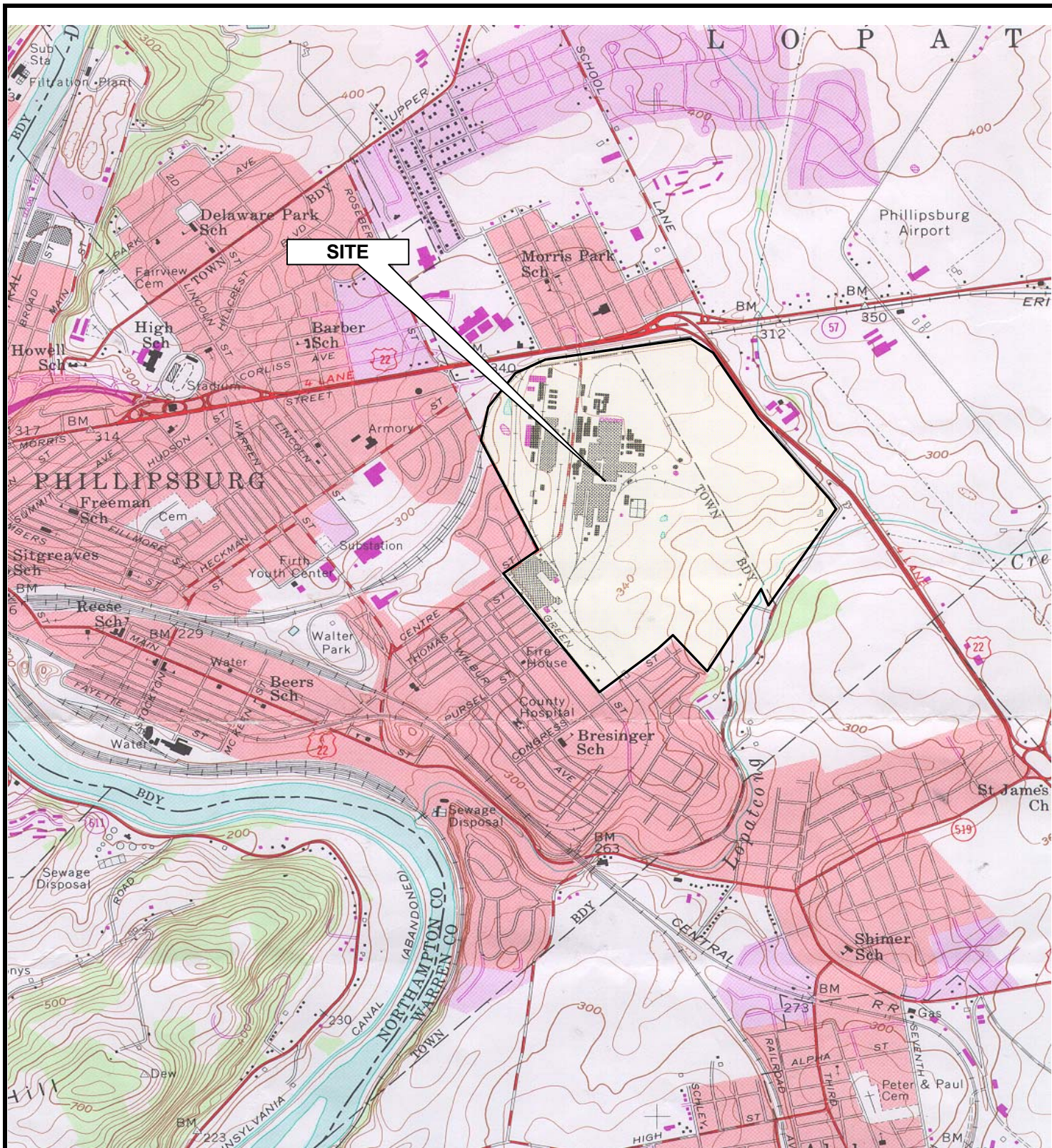
mV - milliVolts

DTW - Depth to Water, ft - feet below top of casing

error - Instrument reported an "error" reading.

--- = Not measured

FIGURES



Source:
USGS 7.5' Topographic
Quadrangle - Easton, NJ-PA
1954 - Photorevised 1981

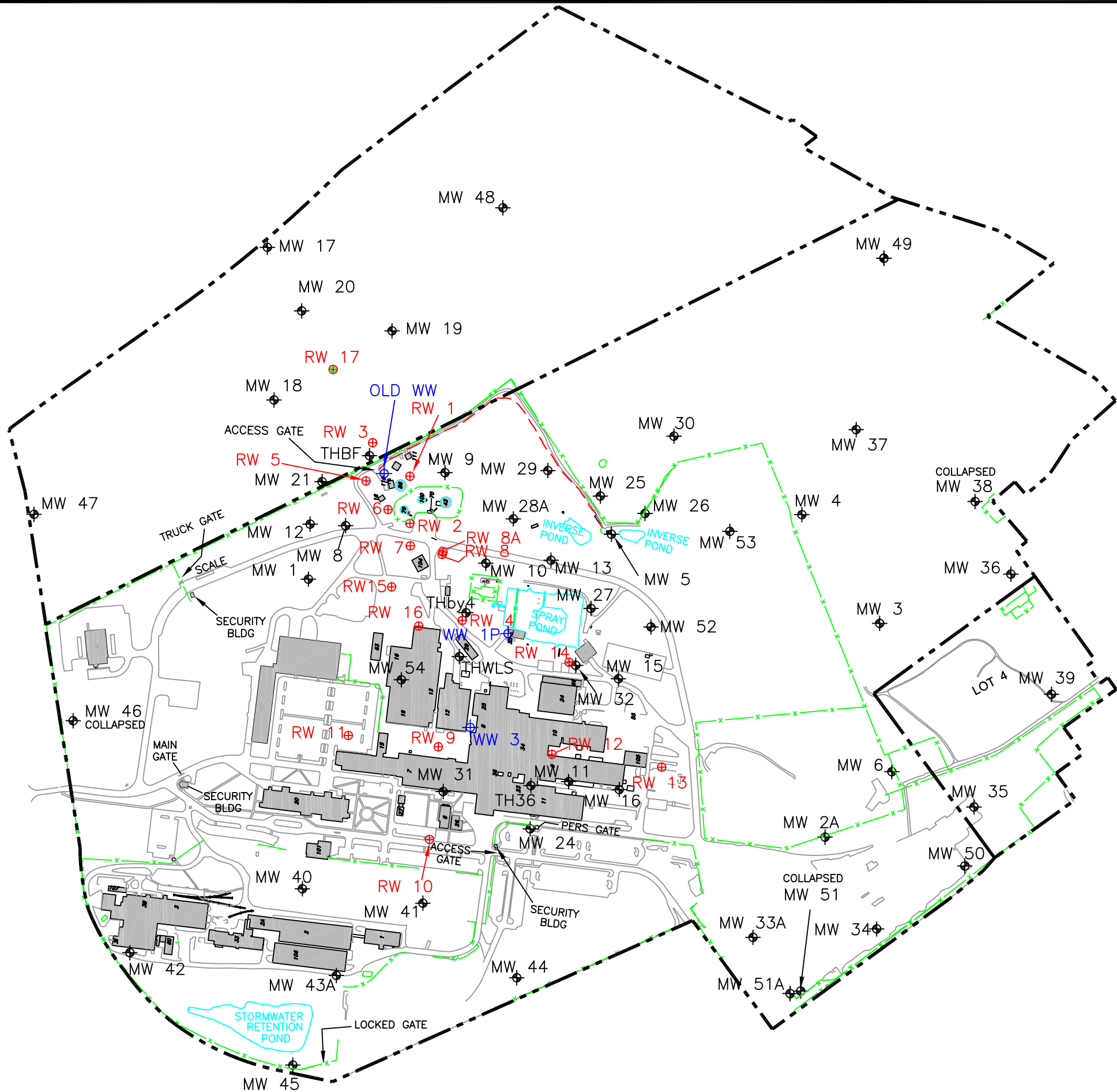
Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: 1:24,000
Date: 4/14/05

FIGURE 1
Site Location Map
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Project No.: 03710-167



Piscataway on 'dcPiscataway(J):Project\Ingersoll Rand\03710-167\Cadd\GW 2005\Site Plan (3)



LEGEND

- Monitoring Well
- Recovery Well
- Production Well
- Pond
- Fenceline
- Property Boundary

NOTES:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN ARE BASED ON SURVEYED MAP IN STATE PLANE NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL - RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590-G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL - RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147-G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.

MAPPED WELL LOCATIONS ARE APPROXIMATE.



NORTH

SITE PLAN WITH MONITORING & RECOVERY WELL LOCATIONS

FORMER INGERSOLL RAND FACILITY
PHILLIPSBURG, NEW JERSEY

ENSR
INTERNATIONAL
20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 981-0200
FAX: (732) 981-0116
WEB: HTTP://WWW.ENSR.COM

FIGURE NUMBER:

2

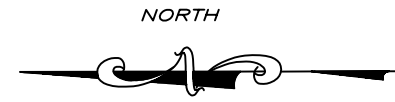
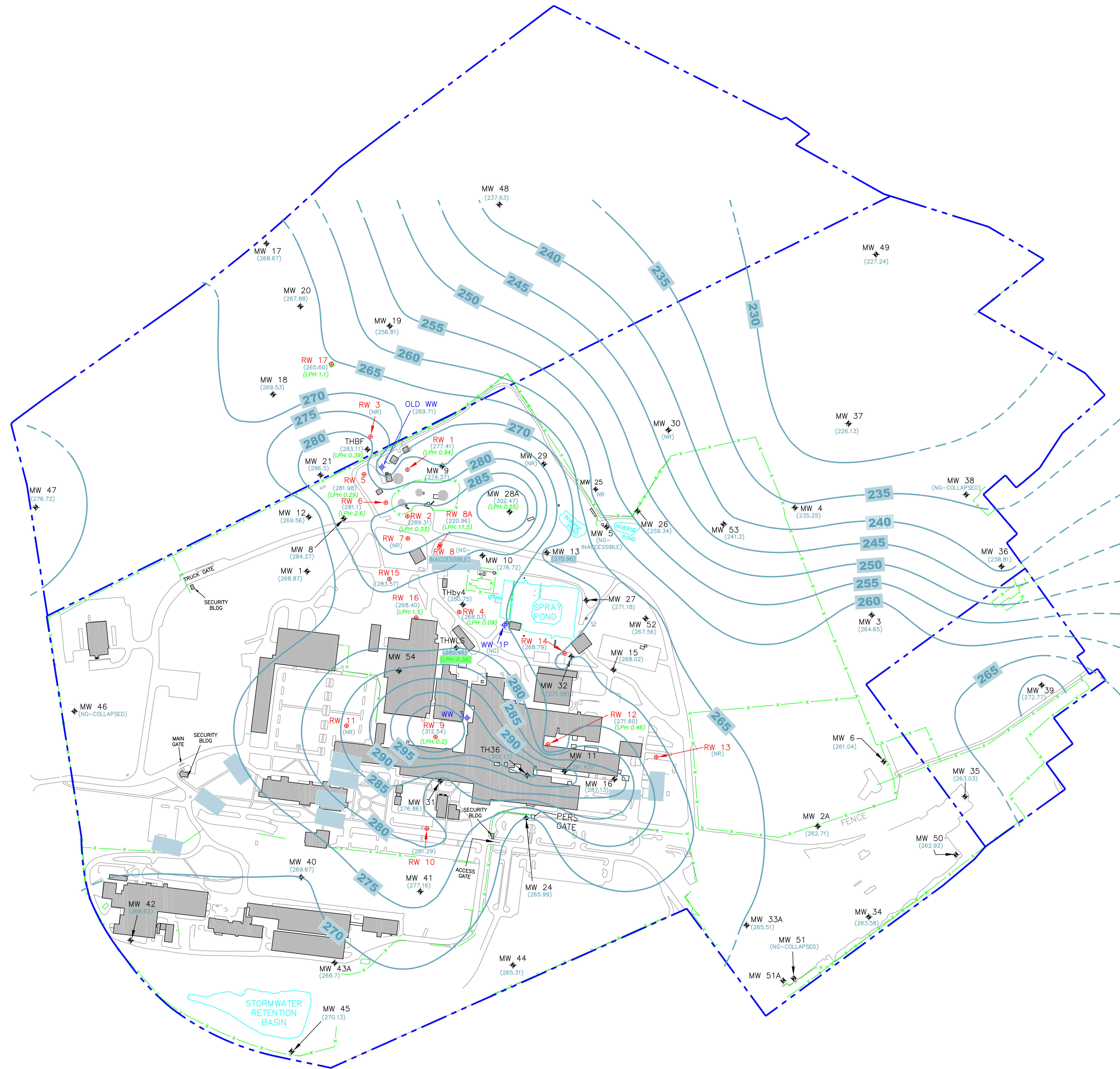
SHEET NUMBER:

1 of 1

DESIGNED BY:	NO.:	DESCRIPTION:	DATE:	BY:
GM				
DRAWN BY:				
/jk				
CHECKED BY:				
APPROVED BY:				

SCALE:	DATE:	PROJECT NUMBER:
AS SHOWN	05/11/05	03710-167

Plotted on 10/10/2005 at 10:00 AM by J:\Projects\Ingersoll Rand\03710-167\CAD\DW 2005\09-04 GW Elev (3).dwg



DESIGNED BY:		NO.		REVISIONS	
GMC				DESCRIPTION	
DATE					
BY					
DRAWN BY:					
/JK					
CHECKED BY:					
APPROVED BY:					

ENSR INTERNATIONAL
20 NEW ENGLAND AVENUE
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 981-0200
FAX: (732) 981-0116
WEB: HTTP://WWW.ENSR.COM

GROUNDWATER ELEVATION MAP
SEPTEMBER 2004
FORMER INGERSOLL-RAND FACILITY
PHILLIPSBURG, NEW JERSEY

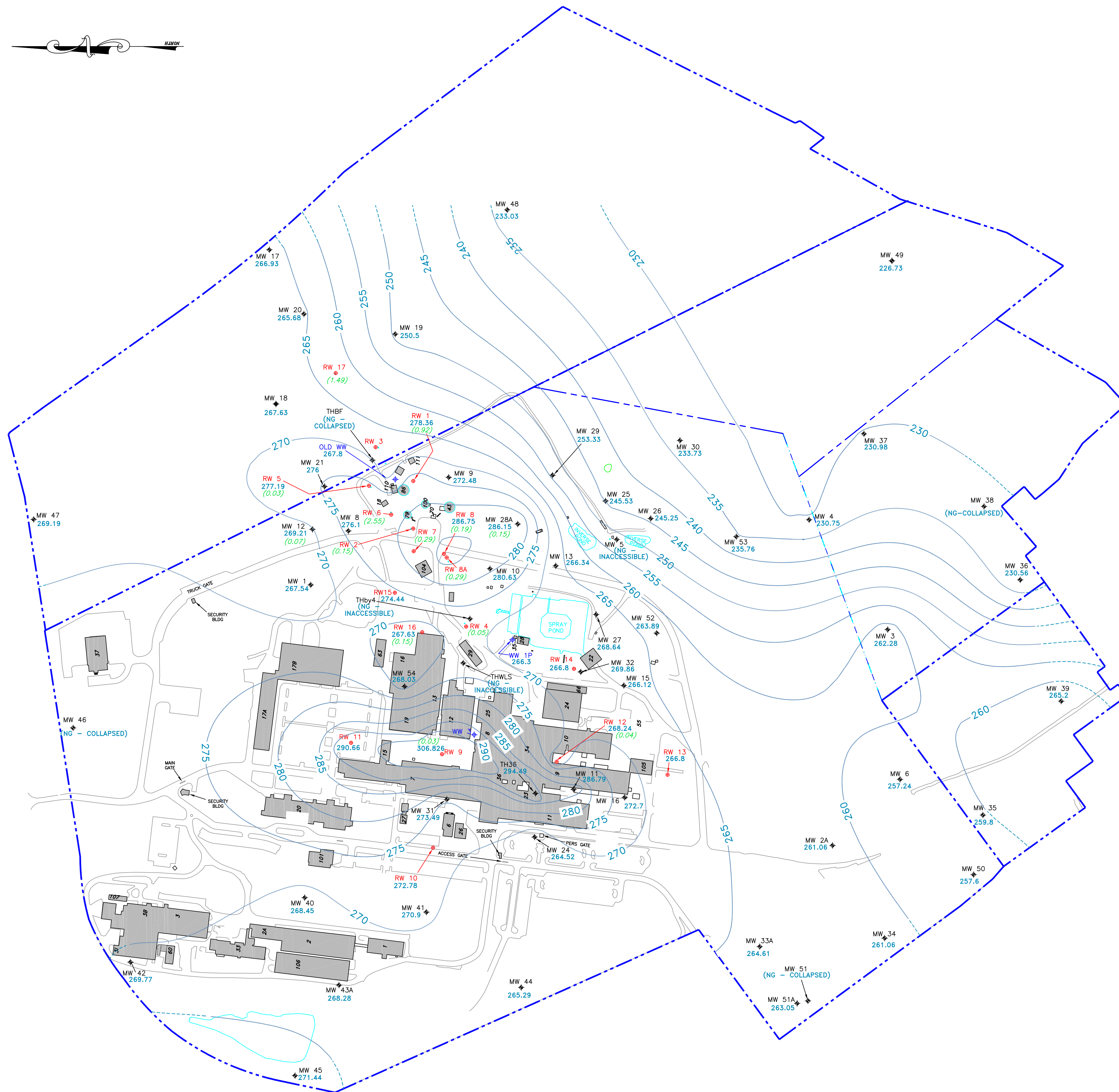
SCALE:	DATE:	PROJECT NUMBER:
AS SHOWN	11/01/05	03710-167

FIGURE NUMBER:

3

SHEET NUMBER:

1 of 1



Legend

POND
 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
 FORMER INGERSOLL-RAND PROPERTY BOUNDARY
 MONITORING WELL
 RECOVERY WELL
 PRODUCTION WELL
 CURRENT BUILDING OUTLINE AND ID
 NG = NOT GAUGED DUE TO INACCESSIBILITY OR COLLAPSE OF THE WELL
 GROUNDWATER FLEET DATA IS REPORTED IN FEET ABOVE MEAN SEA LEVEL
 PRODUCT THICKNESS OF LIQUID PHASE HYDROCARBON (LPH) IS REPORTED IN FEET

ID
 ELEVATION
 RW 15
 277.15
 (0.03)
 PRODUCT THICKNESS

17

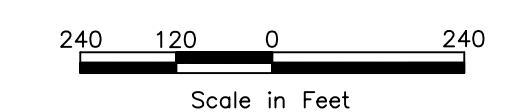
NOTE: DUE TO UPGRADE ACTIVITIES OF THE RECOVERY SYSTEM, THE FOLLOWING WELLS HAVE NOT BEEN RESURVEYED. THE WELLS WERE GAUGED, HOWEVER, THE DATA WAS NOT INCLUDED IN THE CONTOUR MAPPING.

WELL	DEPTH TO WATER (FEET)
RW 17	78.84
RW 2	76.1
RW 3	70.17
RW 4	93.6
RW 6	81.77
RW 7	76
RW 8A	71.5

Notes:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN
ARE BASED ON SURVEYED MAP IN STATE PLANE
NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL - RAND CO.," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1590-G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL - RAND COMPANY," PREPARED BY STUDER & McELDOWNEY, P.A., DRAWING NO. 1147-G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.



DESIGNED BY:		REVISIONS				BY:	
GMat		NO.:	DESCRIPTION:	DATE:			
DRAWN BY:							
/jk/c							
CHECKED BY:							
APPROVED BY:							

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GROUNDWATER ELEVATION MAP
JULY 2005

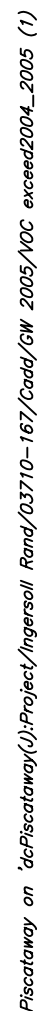
SCALE:	DATE:	PROJECT NUMBER:
AS SHOWN	10/17/05	03710-167

FIGURE NUMBER:

6

SHEET NUMBER:

1 of 1

Analyte

Sample Date

Results in ug/L.
Bold indicates
exceedance of
NJDEP Ground
Water Quality
Standards (GWQS).

TH36	PCE		TCE	
	10/4/2004	4/19/2005	10/4/2004	4/19/2005
110	0.4	6.8	0.4 U	4.7

MW16	1,1-DCE		PCE		TCE	
	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005
130	3.8	3.7	0.9	5.5	0.5	1.5
155	3.4	2.8	1.5	6.7	0.7	2.7
190	2.4	2.8	1.2	5.7	0.7	2.5

MW33A	1,1-DCE		PCE		TCE	
	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005
107	2.1	1.5	1.8	2.2	4.7	4.2
120	0.9	0.9	1.7	1.9	2.8	2.5

MW34	PCE		TCE	
	10/4/2004	4/18/2005	10/4/2004	4/18/2005
108	0.4	0.9	1.3	2.3
118	0.5	0.7	1.4	1.9
120	1.2	1.8	2.4	3.4

MW35	1,1,1-TCA		1,1-DCE		PCE		TCE	
	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005
122	93	130	6.6	5.7	2.2	3.3	8.4	11
128	53	74	4.4	4.6	1.3	2	5.9	6.4

MW06	1,1,1-TCA		1,1-DCE		TCE	
	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005
110	43	46	4.3	4	5.6	6.2
145	43	45	4.4	3.7	5.6	6.0
187	16	39	1.7	3.4	2.1	5.2

RW14	TCE	
	10/4/2004	4/18/2005
165	0.8	1.7

MW32	TCE	
	10/4/2004	4/18/2005
118	1.7	1.3
129	1.8	1.2

MW37	CT		TCE	
	10/4/2004	4/18/2005	10/4/2004	4/18/2005
60	0.8	0.8	11	9.5
86	0.7	0.9	11	9.8
98	2.5	1.9	25	20

MW04	cis-1,2-DCOES		PCE		TCE		VC	
	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005	10/4/2004	4/18/2005
96	69	1.1	7.7	0.4 U	19	0.4	33	0.4 U
108	76	1.4	8.1	0.4 U	20	0.6	37	0.4 U
120	78	5.7	7.8	5	21	7.2	39	9.9

RW16	1.1.1-TCA		1.1.2-TCA		1.1-DCA		1.1-DCE		1.2-DCA		ClEtH		TCE		VC	
	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005
121	68	160	2.8 U	4	220	340	9.8	24	15	7.3	1100	790	4.0 U	9.6	15	24
141.5	78	130	2.8 U	3.1	250	340	7.2	23	14	7.1	1000	740	4.0 U	8.0	14	22

RW15	PCE		TCE	
	10/4/2004	4/19/2005	10/4/2004	4/19/2005
113	4.5	2.9	1.7	0.9
135	2.8	1.5	2.4	0.8
156	2.5	1.8	2.4	0.8

THWLS	1,1,1-TCA		1,1-DCA		1,1-DCE	
	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005
110	31	14	120	18	6.4	1.1

RW11	PCE	
	10/4/2004	4/19/2005
115	1	1.6
170	0.4 U	0.4 U

RW09	cis-1,2-DCE		TCE		VC	
	10/4/2004	4/19/2005	10/4/2004	4/19/2005	10/4/2004	4/19/2005
90	120	470	1	0.8	63	82
118	140	190	1.4	1.6	69	87
147	130	170	1.2	1.3	72	130
160	30	140	0.4 U	0.7	150	160
188	0.7	140	0.4 U	0.7	160	160

Legend

— OPEN WATER

--- FORMER INGERSOLL-RAND
PROPERTY BOUNDARY

✦ MONITORING WELL

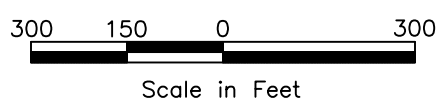
● RECOVERY WELL

⊕ PRODUCTION WELL

Notes:

LOCATIONS OF BASEMAP AND STRUCTURES SHOWN
ARE BASED ON SURVEYED MAP IN STATE PLANE
NAD83, FEET

PROPERTY LINES SHOWN HEREON ARE BASED ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL - RAND CO.," PREPARED BY STUDER & McELDOWNY, P.A., DRAWING NO. 1590-G, DATED AUGUST 15, 2003; AND ON A DRAWING ENTITLED "SURVEY OF LANDS FOR INGERSOLL - RAND COMPANY," PREPARED BY STUDER & McELDOWNY, P.A., DRAWING NO. 1147-G, DATED FEBRUARY 7, 1992, LAST REVISED JUNE 15, 1992.



DESIGNED BY:		REVISIONS	
NO.:	DESCRIPTION:	DATE:	BY:
GM			
DRAWN BY:			
/jk			
CHECKED BY:			
APPROVED BY:			

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220 NEW ENGLAND AVENUE
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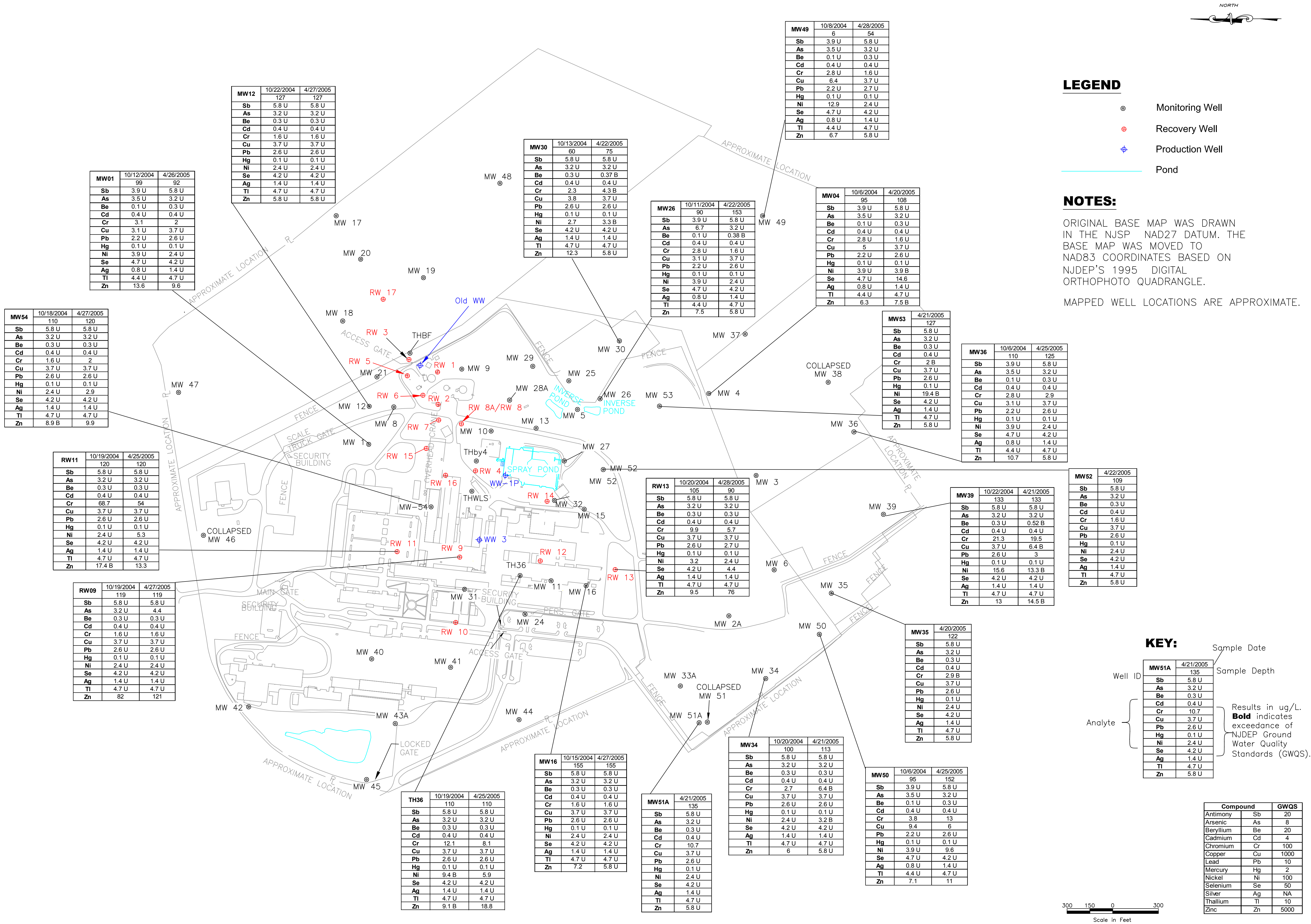
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS:
VOLATILE ORGANIC COMPOUNDS
FORMER INGERSOLL RAND FACILITY
PHILLIPSBURG, NEW JERSEY

SCALE:	DATE:	PROJECT NUMBER:
AS SHOWN	11/22/05	03710-167

FIGURE NUMBER:

7

SHEET NUMBER:
1 of 1



Summary of Groundwater Analytical Results:

Priority Pollutant Metals

FORMER INGERSOLL RAND FACILITY
PHILLIPSBURG, NEW JERSEY

SCALE: AS SHOWN

DATE: 04/12/05

PROJECT NUMBER: 03710-167

FIGURE NUMBER:

8

SHEET NUMBER:

1 of 1

APPENDICES

APPENDIX A

Historical Groundwater Analytical Results

APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW04A						MW04B					
Lab ID			347429	383772	423938	463778	517912	569962	347430	383773	423939	463779	517913	569963
Depth			107	96	96	96	96	96	120	108	108	108	108	108
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			11:00	8:40	9:00	9:50	9:30	8:45	11:05	8:45	9:05	9:55	9:35	8:50
VOCs via EPA Method 624 ¹	CAS_RN	GWQS												
1,1,1-Trichloroethane	71-55-6	30	1.2	1	1.4	0.8	1.7	0.5	1.2	1	1.5	0.8	1.8	(0.3) U
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	3.3	3	(0.2) U	1.9	1	1.2	3.1	3.2	1.2	2	1.1	1.3
1,1-Dichloroethylene	75-35-4	2	0.8	0.9	(0.4) U	0.9	(0.4) U	0.6	0.9	0.8	(0.4) U	0.9	(0.4) U	0.6
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	89	100	0.6	70	0.9	69	87	110	1.3	82	1.1	76
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	0.7	0.6	(0.2) U	0.9	(0.2) U	0.4	0.5	0.5	(0.2) U	1.2	(0.2) U	0.5
Tetrachloroethene	127-18-4	1	8.1	7.6	(0.3) U	15	(0.3) U	7.7	7.9	7.9	0.5	18	(0.3) U	8.1
Trichloroethylene	79-01-6	1	32	31	(0.2) U	21	0.5	19	31	32	0.5	24	0.6	20
Vinyl Chloride	75-01-4	5	26	43	(0.5) U	28	(0.5) U	33	26	47	(0.5) U	34	(0.5) U	37
Total VOCs	--	--	161.1	187.1	2	138.5	4.1	131.4	157.6	202.4	5	162.9	4.6	143.5
Total TICs	--	100/500	ND	ND	ND	ND	4.2	ND	ND	ND	ND	ND	4.6	ND

NOTES:

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PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

¹ The analytes presented include only those for which at least one analytical result reported a concentration in excess of the NJDEP Groundwater Quality Standards (GWQS).

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW04C					MW06A				MW06B			
Lab ID	383774	423940	463780	517914	569964	347434	383784	517926	569975	347435	383785	517927	569976		
Depth	120	120	120	120	120	110	110	110	110	140	145	145	145		
Sample Date	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	10/15/02	04/06/04	10/04/04	04/29/02	10/15/02	04/06/04	10/04/04		
Sample Time	8:50	9:10	10:00	9:40	8:55	11:45	9:35	11:35	11:10	11:50	9:40	11:40	11:15		
VOCs via EPA Method 624 ¹	CAS_RN	GWQS													
1,1,1-Trichloroethane	71-55-6	30	1	1.6	0.8	1.2	0.5	57	55	41	43	55	60	42	43
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	3.4	1.7	2.1	1.8	1.2	19	21	13	11	18	23	14	12
1,1-Dichloroethylene	75-35-4	2	0.8	(0.4) U	0.9	(0.4) U	0.6	10	4.2	4.3	4.3	9.3	4.8	4.3	4.4
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.40) U	(0.4) U	(0.3) U	(0.4) U	(0.40) U	(0.4) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.40) U	(0.4) U	(0.2) U	(0.4) U	(0.40) U	(0.4) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.50) U	(0.5) U	(0.5) U	(0.4) U	(0.50) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	120	12	84	19	78	(0.3) U	(0.3) U	(0.2) U	(0.4) U	(0.3) U	(0.3) U	(0.2) U	(0.4) U
Methylene Chloride	75-09-2	3	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.90) U	(0.9) U	(0.8) U	(0.9) U	(0.90) U	(0.9) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	0.6	(0.2) U	1.1	(0.2) U	0.5	(0.20) U	(0.2) U	(0.2) U	(0.3) U	(0.20) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	7.5	4	16	4.2	7.8	0.5	1	1	0.8	0.5	0.6	0.7	0.7
Trichloroethylene	79-01-6	1	33	4.9	23	6.1	21	4.9	4.4	6	5.6	4.6	4.8	5.9	5.6
Vinyl Chloride	75-01-4	5	49	(0.5) U	34	3.6	39	(0.3) U	(0.3) U	(0.5) U	(0.4) U	(0.3) U	(0.3) U	(0.5) U	(0.4) U
Total VOCs	--	--	215.3	24.2	161.9	35.9	148.6	91.4	85.6	65.3	64.7	87.4	93.2	66.9	65.7
Total TICs	--	100/500	ND	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

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Depths are reported in feet (ft) below top of well casing.

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW06C				MW15A	MW15B	MW16A				
Lab ID			347436	383786	517928	569977	383791	383792	383808	423953	463792	517923	569956
Depth			185	187	187	187	120	135	130	130	130	130	130
Sample Date			04/29/02	10/15/02	04/06/04	10/04/04	10/15/02	10/15/02	10/16/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			11:55	9:45	11:45	11:20	11:30	11:35	8:25	11:05	12:00	11:05	10:30
VOCs via EPA Method 624 ¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	25	43	26	16	3.2	2.9	7.8	6.9	7.6	6.9	5.3
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	6.3	16	7.8	4.1	5	5.3	6.1	6.6	6.1	6.5	4.5
1,1-Dichloroethylene	75-35-4	2	5.3	4.5	3	1.7	1	1.1	3.6	4	4.2	4	3.8
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.2) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.3) U	(0.2) U	(0.4) U	5.8	5.7	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(0.8) U	(0.9) U	(0.9) U	(0.9) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	0.3	0.6	0.6	(0.4) U	0.3	(0.2) U	2.4	1	1.3	0.6	0.9
Trichloroethylene	79-01-6	1	2.6	3.8	4	2.1	1.2	1.2	0.7	(0.2) U	0.6	0.3	0.4
Vinyl Chloride	75-01-4	5	(0.3) U	(0.3) U	(0.5) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	39.5	67.9	41.4	23.9	16.5	16.2	20.6	18.5	19.8	18.3	14.9
Total TICs	--	100/500	ND	ND	ND	7.7	ND	ND	ND	ND	ND	3.7	ND

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID	MW16P			MW16B					MW16C				
Lab ID	463795	383809	423954	463793	517924	569957	383810	423955	463794	517925	569958		
Depth	130	155	155	155	155	155	190	190	190	190	190		
Sample Date	09/23/03	10/16/02	04/23/03	09/23/03	04/06/04	10/04/04	10/16/02	04/23/03	09/23/03	04/06/04	10/04/04		
Sample Time	12:15	8:30	11:10	12:05	11:10	10:35	8:35	11:15	12:10	11:15	10:40		
VOCs via EPA Method 624¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	7.3	5.8	2.8	7.6	6.5	5.6	4	4.8	4.8	6.2	4.4
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	5.9	2.5	3.1	5.4	6	4	(0.3) U	1.4	3.7	3.1	3.3
1,1-Dichloroethylene	75-35-4	2	4.2	2.5	2.2	3.8	4	3.4	1.7	1.5	2.7	1.7	2.4
1,2-Dichloroethane	107-06-2	2	(0.3) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.2) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(0.2) U	(0.3) U	(0.2) U	0.3	(0.2) U	(0.4) U	(0.3) U	(0.2) U	(0.2) U	0.9	0.4
Methylene Chloride	75-09-2	3	(0.8) U	(0.9) U	2.7	(0.8) U	(0.8) U	(0.9) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	1.4	0.7	(0.3) U	1.9	0.5	1.5	0.5	0.5	0.7	3.1	1.2
Trichloroethylene	79-01-6	1	0.6	0.4	(0.2) U	0.7	0.4	0.7	(0.1) U	(0.2) U	0.4	1.6	0.7
Vinyl Chloride	75-01-4	5	(0.5) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	19.4	11.9	10.8	19.7	17.4	15.2	6.2	8.2	12.3	16.6	12.4
Total TICs	--	100/500	ND	ND	5.7	ND	3.2	ND	ND	ND	ND	ND	ND

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW32A						MW32B						MW32P
Lab ID			347447	383787	423958	463790	517931	569978	347448	383788	423959	463791	517932	569979	423978
Depth			118	118	118	118	118	118	127	129	129	129	129	129	129
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/23/03
Sample Time			14:45	11:00	11:45	11:35	12:25	11:30	14:50	11:05	11:50	11:40	12:30	11:40	11:55
VOCs via EPA Method 624 ¹	CAS_RN	GWQS													
1,1,1-Trichloroethane	71-55-6	30	7.4	7.6	3.1	4.5	4.1	4.7	8.5	8	3.5	4.7	4.1	4.9	3.2
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	13	12	5.4	7.3	6.2	8.8	14	13	5.5	7.6	6.6	8.8	5.3
1,1-Dichloroethylene	75-35-4	2	3	2.5	1.1	1.9	1.6	1.8	3.1	2.9	1.2	2	1.6	2	1.1
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.3) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.2) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U
cis-1,2-Dichloroethene	156-59-2	70	4	3.7	2	3.8	2.7	2.5	4.4	4.5	2.4	3.7	2.6	2.6	2
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.8) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U
Tetrachloroethene	127-18-4	1	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.7	0.3	0.7	0.6	0.5	0.5
Trichloroethylene	79-01-6	1	2.4	2.1	1	1.7	1.8	1.7	2.5	2	1.2	1.7	1.8	1.8	0.9
Vinyl Chloride	75-01-4	5	(0.3) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U
Total VOCs	--	--	30.4	28.5	13.1	19.7	17	20	33.1	31.1	14.1	20.4	17.3	20.6	13
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW33AA						MW33AB				
Lab ID			347441	383780	423949	463786	517920	569952	383781	423950	463787	517921	569953
Depth			120	107	107	107	107	107	120	120	120	120	120
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			13:40	9:50	10:30	11:05	10:35	10:10	9:55	10:35	11:10	10:40	10:10
VOCs via EPA Method 624 ¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	3.5	7.5	4.9	5.4	1.4	3.5	5.9	3	3.3	1.2	2
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	1.1	2	(0.2) U	1.2	(0.2) U	0.6	1.7	(0.2) U	0.9	(0.2) U	0.5
1,1-Dichloroethylene	75-35-4	2	1.9	5.1	2.9	3.1	1	2.1	3.7	1.5	1.7	0.7	0.9
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.3) U	(0.2) U	0.5	(0.2) U	(0.4) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	1.3	4.1	3.7	2.9	0.5	1.7	3.8	2.1	2.6	0.9	1.7
Trichloroethylene	79-01-6	1	3.2	9.4	8	6.5	2.2	4.7	7.3	4	3.6	1.4	2.8
Vinyl Chloride	75-01-4	5	(0.3) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	11	28.1	19.5	19.6	5.1	12.6	22.4	10.6	12.1	4.2	7.9
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

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APPENDIX A
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Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW33AP			MW34A					
Lab ID			347442	517922	569954	347437	383777	423946	463783	517917	569972
Depth			120	120	107	108	108	108	108	108	108
Sample Date			04/29/02	04/06/04	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			13:45	10:45	10:20	12:05	9:30	10:10	10:45	10:15	9:45
VOCs via EPA Method 624 ¹	CAS_RN	GWQS									
1,1,1-Trichloroethane	71-55-6	30	3.4	1.4	3.4	1.7	3.8	2.6	3.1	3	1.7
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	1.1	(0.2) U	0.5	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
1,1-Dichloroethylene	75-35-4	2	1.5	1.1	1.9	(0.3) U	0.9	(0.4) U	0.9	0.8	(0.3) U
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.3) U	(0.4) U	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.2) U	(0.4) U	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.4) U	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.2) U	(0.4) U	1.2	2.3	0.5	0.4	0.9	(0.4) U
Methylene Chloride	75-09-2	3	(0.90) U	(0.8) U	(0.9) U	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.3) U	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	1.4	0.5	1.8	0.6	3.1	0.5	1	1.2	0.4
Trichloroethylene	79-01-6	1	3.1	2.3	4.6	2.3	4.2	1.8	2.4	3.2	1.3
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.4) U	(0.3) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	10.5	5.3	12.2	5.8	14.3	5.4	7.8	9.1	3.4
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

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Phillipsburg, New Jersey

Field ID			MW34B						MW34C				
Lab ID			347438	383778	423947	463784	517918	569973	383779	423948	463785	517919	569974
Depth			113	113	113	113	113	118	120	120	120	120	120
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			12:10	9:35	10:15	10:50	10:20	9:48	9:40	10:20	10:55	10:25	9:50
VOCs via EPA Method 624 ¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	4.6	4.4	4.6	3.1	3	1.7	5	3.2	4.1	3.1	1.7
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	0.9	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
1,1-Dichloroethylene	75-35-4	2	1.9	1.1	0.6	0.9	0.7	(0.3) U	1	(0.4) U	0.8	0.9	0.4
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	7.6	2.4	5.3	0.8	1.9	(0.4) U	5.1	2.2	2.9	2.2	0.8
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	2.5	4.1	4.2	1.4	1.2	0.5	5.7	1.6	3.2	1.6	1.2
Trichloroethylene	79-01-6	1	7.7	4.4	7.6	2.8	3.2	1.4	6.5	3.4	4.9	3.8	2.4
Vinyl Chloride	75-01-4	5	(0.3) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	25.2	16.4	22.3	9	10	3.6	23.3	10.4	15.9	11.6	6.5
Total TICs	--	100/500	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW35A						MW35B					
Lab ID			347439	383775	423944	463781	517915	569968	347440	383776	423945	463782	517916	569969
Depth			122	122	122	122	122	122	128	128	128	128	128	128
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			12:25	9:10	9:55	10:25	9:55	9:40	12:30	9:15	10:00	10:30	10:00	9:35
VOCs via EPA Method 624 ¹	CAS_RN	GWQS												
1,1,1-Trichloroethane	71-55-6	30	82	140	150	140	100	93	82	81	88	150	71	53
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.7) U	(0.7) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	26	41	60	50	34	21	25	22	26	49	21	10
1,1-Dichloroethylene	75-35-4	2	16	10	7.4	8.2	6.2	6.6	16	7.5	5.7	9.5	4.3	4.4
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.5) U	(0.5) U	(0.3) U	(0.4) U	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.5) U	(0.5) U	(0.2) U	(0.4) U	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.9) U	(0.9) U	(0.5) U	(0.4) U	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	1.2	1.1	(0.5) U	1.2	1.2	0.4	1.3	1.2	0.7	1.2	1.3	(0.4) U
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(1.6) U	(1.6) U	(0.8) U	(0.9) U	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.5) U	(0.5) U	(0.2) U	(0.3) U	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	1.4	4.8	3.4	4.3	2.2	2.2	2.6	3.1	2.6	6.2	2.5	1.3
Trichloroethylene	79-01-6	1	11	14	14	14	9	8.4	12	9.9	9.2	12	7.1	5.9
Vinyl Chloride	75-01-4	5	(0.3) U	(0.3) U	(1.1) U	(1.1) U	(0.5) U	(0.4) U	(0.3) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	137.6	210.9	234.8	217.7	152.6	131.6	138.9	124.7	132.2	227.9	107.2	74.6
Total TICs	--	100/500	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND

NOTES:

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Field ID			MW37A					MW37B				
Lab ID			383769	423941	463775	517908	569965	383770	423942	463776	517909	569966
Depth			60	60	60	60	60	86	86	86	86	86
Sample Date			10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			8:10	9:15	9:05	9:00	9:30	8:15	9:20	9:10	9:05	9:32
VOCs via EPA Method 624 ¹	CAS_RN	GWQS										
1,1,1-Trichloroethane	71-55-6	30	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
1,1-Dichloroethylene	75-35-4	2	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.3) U
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	1.2	1.3	2	1.8	0.8	6.2	4.6	4.4	1.8	0.7
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Methylene Chloride	75-09-2	3	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
Trichloroethylene	79-01-6	1	17	13	19	17	11	62	48	40	18	11
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	18.2	14.3	21	18.8	11.8	68.2	52.6	44.4	19.8	11.7
Total TICs	--	100/500	ND	ND	ND	4.2	ND	ND	ND	ND	5.4	ND

NOTES:

All results are reported in micrograms per liter (µg/L).

PDB = Passive Diffusion Bag.

VOCs = Volatile Organic Compounds.

Depths are reported in feet (ft) below top of well casing.

Sample IDs ending in "P" indicate that it is a duplicate sample.

CAS_RN = Chemical Abstracts Service Registry Number.

¹ The analytes presented include only these for which at least on analytical results reported a concentration in excess of the NJDEP Groundwater Quality Standards (GWQS).

TICs = Tentatively Identified Compounds.

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW37C					RW09A				
Lab ID			383771	423943	463777	517910	569967	347413	383798	423960	463805	517948
Depth			98	98	98	98	98	118	90	90	90	90
Sample Date			10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04
Sample Time			8:20	9:25	9:15	9:10	9:35	12:00	14:25	12:10	14:35	15:15
VOCs via EPA Method 624 ¹	CAS_RN	GWQS										
1,1,1-Trichloroethane	71-55-6	30	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.50) U	(1.3) U	(0.3) U	(0.2) U	(0.2) U
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.60) U	(1.4) U	(0.7) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.50) U	(1.4) U	(0.5) U	(0.2) U	(0.2) U
1,1-Dichloroethylene	75-35-4	2	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.3) U	0.7	(1.4) U	(0.9) U	0.7	0.5
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.70) U	(1.8) U	(0.5) U	(0.3) U	(0.3) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.70) U	(1.8) U	(0.5) U	(0.2) U	(0.2) U
Carbon tetrachloride	56-23-5	2	6.5	5.1	3.7	1.8	2.5	(0.60) U	(1.5) U	(0.4) U	(0.2) U	(0.2) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(1.0) U	(2.4) U	(0.9) U	(0.5) U	(0.5) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	310	290	250	96	110
Methylene Chloride	75-09-2	3	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(1.8) U	(4.4) U	(1.6) U	(0.8) U	(0.8) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	0.6	(1.2) U	(0.5) U	0.7	0.5
Tetrachloroethene	127-18-4	1	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	3.4	(1.2) U	2	1	0.5
Trichloroethylene	79-01-6	1	64	53	34	19	25	11	(0.6) U	4	1.3	1.3
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	77	84	56	52	50
Total VOCs	--	--	70.5	58.1	37.7	20.8	27.5	402.7	374	312	151.7	162.8
Total TICs	--	100/500	ND	ND	ND	4.9	ND	ND	ND	ND	3.2	ND

NOTES:

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			RW09B							RW09C					
Lab ID	569992	347414	383799	423961	463806	517949	569993	347415	383800	423962	463807	517950	569994		
Depth	90	147	118	118	118	118	118	160	147	147	147	147	147		
Sample Date	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04		
Sample Time	15:15	12:05	14:30	12:15	14:40	15:20	15:20	12:10	14:35	12:20	14:45	15:25	15:22		
VOCs via EPA Method 624 ¹	CAS_RN	GWQS													
1,1,1-Trichloroethane	71-55-6	30	(0.3) U	(0.50) U	(1.3) U	(0.8) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(1.3) U	(0.8) U	(0.2) U	(0.2) U	(0.3) U
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.60) U	(1.4) U	(1.7) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(1.4) U	(1.7) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.4) U	(0.50) U	(1.4) U	(1.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(1.4) U	(1.2) U	(0.2) U	(0.2) U	(0.4) U
1,1-Dichloroethylene	75-35-4	2	0.4	(0.60) U	(1.4) U	(2.2) U	1	0.8	0.5	0.4	(1.4) U	(2.2) U	0.8	0.6	0.4
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.70) U	(1.8) U	(1.3) U	(0.3) U	(0.3) U	(0.4) U	(0.40) U	(1.8) U	(1.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.70) U	(1.8) U	(1.2) U	(0.2) U	(0.2) U	(0.4) U	(0.40) U	(1.8) U	(1.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.60) U	(1.5) U	(1) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(1.5) U	(1) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.4) U	(1.0) U	(2.4) U	(2.3) U	(0.5) U	(0.5) U	(0.4) U	(0.50) U	(2.4) U	(2.3) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	120	260	420	320	160	190	140	140	390	300	140	150	130
Methylene Chloride	75-09-2	3	(0.9) U	(1.8) U	(4.4) U	(4) U	(0.8) U	(0.8) U	(0.9) U	(0.90) U	(4.4) U	(4) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.3) U	0.8	(1.2) U	(1.2) U	0.8	0.8	0.4	0.8	(1.2) U	(1.2) U	0.9	0.6	0.4
Tetrachloroethene	127-18-4	1	0.4	2.6	(1.2) U	1.9	1.7	1	0.5	0.3	(1.2) U	1.6	1.3	0.6	(0.4) U
Trichloroethylene	79-01-6	1	1	7.6	(0.6) U	4.4	2.7	2.6	1.4	2.1	(0.6) U	6.2	3	1.5	1.2
Vinyl Chloride	75-01-4	5	63	71	94	70	65	66	69	180	110	78	72	85	72
Total VOCs	--	--	184.8	342	514	396.3	231.2	261.2	211.8	323.6	500	385.8	218	238.3	204
Total TICs	--	100/500	19.8	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	11.7

NOTES:

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			RW09D						RW09E				
Lab ID			347416	383801	423963	463808	517951	569995	383802	423964	463809	517952	569996
Depth			188	160	160	160	160	160	193	188	188	188	188
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			12:15	14:40	12:25	14:50	15:30	15:25	14:45	12:30	14:55	15:35	15:28
VOCs via EPA Method 624 ¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	(1.3) U	(1.3) U	(0.3) U	(0.8) U	(0.2) U	(0.3) U	(0.5) U	(0.3) U	(0.8) U	(0.2) U	(0.3) U
1,1,2-Trichloroethane	79-00-5	3	(1.4) U	(1.4) U	(0.7) U	(1.7) U	(0.3) U	(0.3) U	(0.6) U	(0.7) U	(1.7) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(1.4) U	(1.4) U	(0.5) U	(1.2) U	(0.2) U	(0.4) U	(0.5) U	(0.5) U	(1.2) U	(0.2) U	(0.4) U
1,1-Dichloroethylene	75-35-4	2	(1.4) U	(1.4) U	(0.9) U	(2.2) U	0.6	(0.3) U	(0.6) U	3.1	(2.2) U	0.5	(0.3) U
1,2-Dichloroethane	107-06-2	2	(1.8) U	(1.8) U	(0.5) U	(1.3) U	(0.3) U	(0.4) U	(0.7) U	(0.5) U	(1.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(1.8) U	(1.8) U	(0.5) U	(1.2) U	(0.2) U	(0.4) U	(0.7) U	(0.5) U	(1.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(1.5) U	(1.5) U	(0.4) U	(1) U	(0.2) U	(0.3) U	(0.6) U	(0.4) U	(1) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(2.4) U	(2.4) U	(0.9) U	(2.3) U	(0.5) U	(0.4) U	(1) U	(0.9) U	(2.3) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	27	140	59	44	140	30	75	320	(1.2) U	130	0.7
Methylene Chloride	75-09-2	3	(4.4) U	(4.4) U	(1.6) U	(4) U	(0.8) U	(0.9) U	(1.8) U	(1.6) U	(4) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(1.2) U	(1.2) U	(0.5) U	(1.2) U	0.8	(0.3) U	(0.5) U	1	(1.2) U	0.6	(0.3) U
Tetrachloroethene	127-18-4	1	(1.2) U	(1.2) U	1.3	(1.6) U	(0.3) U	(0.4) U	1.4	1.9	(1.6) U	(0.3) U	(0.4) U
Trichloroethylene	79-01-6	1	(0.60) U	(0.6) U	0.7	(0.9) U	0.5	(0.4) U	1.7	2.6	(0.9) U	0.6	(0.4) U
Vinyl Chloride	75-01-4	5	330	350	300	280	120	150	200	350	380	110	160
Total VOCs	--	--	357	490	361	324	261.9	180	278.1	678.6	380	241.7	160.7
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	12.7	ND	ND	ND	ND

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			RW11A					RW11B					RW13A	
Lab ID			383803	423972	463796	517935	569982	383803	423972	463796	517935	569982	383806	423951
Depth			115	115	115	115	115	170	170	170	170	170	115	115
Sample Date			10/16/02	04/23/03	09/23/03	04/06/04	10/04/04	10/16/02	04/23/03	09/23/03	04/06/04	10/04/04	10/16/02	04/23/03
Sample Time			7:35	15:45	12:25	14:00	13:25	7:40	15:50	12:30	14:05	11:35	8:10	10:50
VOCs via EPA Method 624 ¹	CAS_RN	GWQS												
1,1,1-Trichloroethane	71-55-6	30	0.7	(0.2) U	0.4	0.3	(0.3) U	(0.3) U	0.3	0.3	(0.2) U	(0.3) U	0.4	0.5
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.2) U
1,1-Dichloroethylene	75-35-4	2	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.3) U	0.7	(0.4) U	0.8	0.7	0.6	(0.3) U	(0.4) U
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.3) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.2) U
Methylene Chloride	75-09-2	3	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.9) U	(0.8) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U
Tetrachloroethene	127-18-4	1	1.9	1.2	1.3	1.1	1	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.2) U	(0.3) U
Trichloroethylene	79-01-6	1	(0.1) U	(0.2) U	0.3	0.3	(0.4) U	(0.1) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.1) U	(0.2) U
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.5) U
Total VOCs	--	--	2.6	1.2	2	1.7	1	0.7	0.3	1.1	0.7	0.6	0.4	0.5
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			RW13B		RW14A					RW14B				
Lab ID			383807	423952	383789	423956	463788	517929	569970	383790	423957	463789	517930	569971
Depth			165	165	118	118	118	118	118	155	165	165	165	165
Sample Date			10/16/02	04/23/03	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			8:15	10:55	11:10	11:30	11:25	12:15	11:25	11:15	11:35	11:30	12:20	11:35
VOCs via EPA Method 624 ¹	CAS_RN	GWQS												
1,1,1-Trichloroethane	71-55-6	30	0.4	0.4	7	2	1.5	1.2	1	6.7	2.8	4	3.5	4.2
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.3) U	(0.2) U	12	6.7	5.7	4.2	3.5	12	4.9	7	6.9	8.5
1,1-Dichloroethylene	75-35-4	2	(0.3) U	(0.4) U	3	0.9	1.3	0.8	0.8	2.6	0.9	1.9	1.7	1.8
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.3) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.2) U	3.8	2.2	2.2	1.4	1	4.2	2.1	3.6	2.4	2.4
Methylene Chloride	75-09-2	3	(0.9) U	(0.8) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	(0.2) U	(0.3) U	0.4	(0.3) U	(0.3) U	(0.3) U	(0.4) U	0.3	(0.3) U	0.4	(0.3) U	(0.4) U
Trichloroethylene	79-01-6	1	(0.1) U	(0.2) U	2.1	0.8	0.8	0.7	0.7	2	0.8	1.5	1.5	1.7
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	0.4	0.4	28.3	12.6	11.5	8.3	7	27.8	11.5	18.4	16	18.6
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			RW15A						RW15B					
Lab ID			347427	383795	423967	463798	517941	RW15A	347408	383796	423968	463799	517942	569985
Depth			113	113	113	113	113	113	128	135	135	135	135	135
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			10:30	13:55	14:10	13:35	14:35	13:40	10:35	14:00	14:15	13:40	14:40	13:45
VOCs via EPA Method 624 ¹	CAS_RN	GWQS												
1,1,1-Trichloroethane	71-55-6	30	1	2.6	1.8	1.5	1.2	0.8	1	1.3	1.8	1.6	1	0.9
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	3.6	3.5	0.9	0.7	0.6	(0.4) U	3.8	3.6	(0.2) U	0.8	(0.2) U	0.4
1,1-Dichloroethylene	75-35-4	2	(0.3) U	(0.3) U	(0.4) U	0.6	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	0.5	(0.4) U	(0.3) U
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	7.2	58	12	7.6	4	3.5	8	12	13	8.9	4.1	4.8
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	0.7	2.5	7.9	9.6	7.1	4.5	0.9	2.7	6.5	7.4	3.3	2.8
Trichloroethylene	79-01-6	1	3.1	12	5.7	4.1	2.9	1.7	3.4	5.6	5.4	4.5	2.7	2.4
Vinyl Chloride	75-01-4	5	7.3	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	7.5	4.7	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	22.9	78.6	28.3	24.1	15.8	10.5	24.6	29.9	26.7	23.7	11.1	11.3
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Phillipsburg, New Jersey

Field ID			RW15C						RW15D	RW16A					
Lab ID			347409	383797	423969	463800	517943	569986	347410	347411	383793	423970	463803	517944	569987
Depth			142	156	156	155	155	156	156	121	121	121	121	121	121
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	04/29/02	04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04
Sample Time			10:40	14:05	14:20	13:45	14:45	13:50	10:45	11:35	13:15	14:35	14:15	14:55	13:55
VOCs via EPA Method 624 ¹	CAS_RN	GWQS													
1,1,1-Trichloroethane	71-55-6	30	1	1.4	1.8	1.8	1.1	0.8	0.9	96	310	66	110	290	68
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(2.8) U	8.1	(6.8) U	(3.4) U	5.2	(2.8) U
1,1-Dichloroethane	75-34-3	50	3.9	3.5	1	0.8	0.7	0.5	3.6	460	600	310	310	360	220
1,1-Dichloroethylene	75-35-4	2	(0.3) U	(0.3) U	(0.4) U	0.6	(0.4) U	(0.3) U	(0.3) U	14	33	70	16	26	9.8
1,2-Dichloroethane	107-06-2	2	(0.40) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.40) U	18	25	48	24	(0.5) U	15
1,2-Dichloropropane	78-87-5	1	(0.40) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.40) U	(3.5) U	(3.5) U	(4.6) U	(2.3) U	(0.5) U	(3.7) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(3.0) U	(3) U	(3.8) U	(1.9) U	(0.4) U	(3) U
Chloroethane	75-00-3	100	(0.50) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.50) U	1300	970	2600	1200	390	1100
cis-1,2-Dichloroethene	156-59-2	70	8.2	15	12	9	4.3	5	7.7	(3.1) U	16	36	5.7	18	(3.5) U
Methylene Chloride	75-09-2	3	(0.90) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U	(0.90) U	(8.8) U	(8.8) U	(16) U	(8.1) U	(1.6) U	(9.1) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.20) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.20) U	(2.3) U	(2.3) U	(5) U	(2.5) U	(0.5) U	(3.3) U
Tetrachloroethene	127-18-4	1	0.7	2.3	5.3	4.9	3.5	2.5	0.8	(2.4) U	(2.4) U	(6.2) U	(3.1) U	2.5	(3.6) U
Trichloroethylene	79-01-6	1	3.3	5.8	4.9	4.2	2.8	2.4	3.2	(1.2) U	(1.2) U	(3.6) U	(1.8) U	7.4	(4) U
Vinyl Chloride	75-01-4	5	6.8	2.8	(0.5) U	(0.5) U	(0.5) U	(0.4) U	7.6	19	(2.9) U	(11) U	24	21	15
Total VOCs	--	--	23.9	30.8	25	21.3	12.4	11.2	23.8	1907	1962.1	3130	1689.7	1120.1	1427.8
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.5	ND

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Phillipsburg, New Jersey

Field ID			RW16B						TH36A				
Lab ID			347412	383794	423971	463804	517945	569988	383805	423974	463810	517946	569989
Depth			141.5	141.5	141.5	141.5	141.5	141.5	110	110	110	110	110
Sample Date			04/29/02	10/15/02	04/23/03	09/23/03	04/06/04	10/04/04	10/16/02	04/23/03	09/23/03	04/06/04	04-Oct-04
Sample Time			11:40	13:20	14:40	14:20	15:05	14:00	8:50	16:20	15:05	15:00	14:30
VOCs via EPA Method 624 ¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	88	400	51	110	170	78	1.6	2.4	2.4	2	2.5
1,1,2-Trichloroethane	79-00-5	3	(2.8) U	7.8	(8.5) U	(6.8) U	(3.4) U	(2.8) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	440	620	140	190	560	250	1.9	5.4	4.3	1.9	4
1,1-Dichloroethylene	75-35-4	2	12	40	55	(8.6) U	18	7.2	0.4	(0.4) U	(0.4) U	(0.4) U	(0.3) U
1,2-Dichloroethane	107-06-2	2	18	25	44	26	10	14	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(3.5) U	(3.5) U	(5.8) U	(4.6) U	(2.3) U	(3.7) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(3.0) U	(3) U	(4.8) U	(3.8) U	(1.9) U	(3) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Chloroethane	75-00-3	100	1200	950	2600	2800	280	1000	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(3.1) U	16	27	(4.8) U	8.4	(3.5) U	1.2	0.9	1.6	2.8	(0.4) U
Methylene Chloride	75-09-2	3	(8.8) U	(8.8) U	(20) U	(16) U	(8.1) U	(9.1) U	(0.9) U	(0.8) U	(0.8) U	(0.8) U	(0.9) U
Trans-1,2-Dichloroethene	156-60-5	100	(2.3) U	(2.3) U	(6.2) U	(5) U	(2.5) U	(3.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	(2.4) U	(2.4) U	(7.8) U	(6.2) U	(3.1) U	(3.6) U	0.6	0.4	0.7	1	0.4
Trichloroethylene	79-01-6	1	(1.2) U	(1.2) U	(4.5) U	(3.6) U	11	(4) U	0.5	0.4	0.6	1	(0.4) U
Vinyl Chloride	75-01-4	5	20	(2.9) U	49	(11) U	34	14	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U
Total VOCs	--	--	1778	2058.8	2966	3126	1091.4	1363.2	6.2	9.5	9.6	8.7	6.9
Total TICs	--	100/500	ND	40	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Former Ingersoll-Rand Facility
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Field ID			TH36P			THWLSA				THWLSB		
Lab ID			383811	463811	517947	423965	463801	517933	569990	423966	463802	517934
Depth			110	110	110	110	110	110	110	123	123	123
Sample Date			10/16/02	09/23/03	04/06/04	04/23/03	09/23/03	04/06/04	10/04/04	04/23/03	09/23/03	04/06/04
Sample Time			8:55	15:10	15:50	13:50	14:00	12:45	14:52	13:55	14:05	12:50
VOCs via EPA Method 624 ¹	CAS_RN	GWQS										
1,1,1-Trichloroethane	71-55-6	30	1.7	2.2	2	86	120	140	31	58	35	120
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.7) U	(1.7) U	1.1	(0.6) U	(1.7) U	(0.7) U	1.2
1,1-Dichloroethane	75-34-3	50	2.2	4.1	1.9	260	280	280	120	250	230	310
1,1-Dichloroethylene	75-35-4	2	0.4	(0.4) U	0.5	12	19	23	6.4	16	14	23
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.3) U	(0.3) U	1.4	1.6	(0.5) U	(0.7) U	(1.3) U	2.4	(0.5) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.2) U	(0.5) U	(1.2) U	(0.5) U	(0.7) U	(1.2) U	(0.5) U	(0.5) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.2) U	(0.2) U	(0.4) U	(1) U	(0.4) U	(0.6) U	(1) U	(0.4) U	(0.4) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	81	94	64	22	100	87	51
cis-1,2-Dichloroethene	156-59-2	70	1.1	1.6	2.9	4.6	6.2	5.3	1.4	5.8	6.5	4.7
Methylene Chloride	75-09-2	3	(0.9) U	(0.8) U	(0.8) U	(1.6) U	(4) U	(1.6) U	(1.8) U	(4) U	(1.6) U	(1.6) U
Trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.2) U	(0.5) U	(1.2) U	(0.5) U	(0.7) U	(1.2) U	(0.5) U	(0.5) U
Tetrachloroethene	127-18-4	1	0.7	0.6	1.2	(0.6) U	(1.6) U	(0.6) U	(0.7) U	(1.6) U	(0.6) U	(0.6) U
Trichloroethylene	79-01-6	1	0.5	0.5	1	2.7	4.4	4.8	(0.8) U	2.7	2.6	4.6
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.5) U	4.7	14	11	4.3	16	26	14
Total VOCs	--	--	6.6	9	9.5	452.4	539.2	529.2	185.1	448.5	403.5	528.5
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW2A					MW2AP	MW04	MW06		
Lab ID			348228	424612	465533	522751	576532	522753	348654	349141	424934	465853
Sample Date			5/2/2002	4/25/2003	9/25/2003	4/23/2004	10/21/2004	4/23/2004	5/6/2002	5/7/2002	4/28/2003	9/29/2003
Sample Time			10:20	10:15	15:20	12:15	13:45	12:20	12:10	13:25	11:40	16:10
VOCs via EPA Method 624 ¹	CAS_RN	GWQS										
1,1,1-Trichloroethane	71-55-6	30	25	19	12	8.4	5.1	8.6	1.2	17	140	80
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.2) U	3.4	4.3	49	26
1,1-Dichloroethylene	75-35-4	2	4.6	2.1	1.4	1.2	0.6	1.5	0.7	3	7.4	4.7
1,2-Dichloroethane	107-06-2	2	(0.3) U	(0.3) U	(0.2) U	(0.3) U	(0.4) U	(0.2) U	(0.4) U	(0.4) U	(0.3) U	(0.3) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.2) U	(0.4) U	(0.4) U	(0.2) U	(0.2) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.3) U	(0.3) U	(0.2) U	(0.2) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.2) U	97	(0.3) U	(0.2) U	(0.2) U
trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	0.5	(0.2) U	(0.2) U	(0.2) U
Tetrachloroethene	127-18-4	1	0.9	0.8	0.5	0.6	(0.4) U	0.6	14	0.4	3	2
Trichloroethylene	79-01-6	1	0.6	0.6	0.4	0.4	(0.4) U	0.4	31	1.9	12	6.6
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	34	(0.3) U	(0.5) U	(0.5) U
Total VOCs	--	--	31.1	22.5	14.3	10.6	5.7	11.1	181.8	26.6	211.4	119.3
Total TICs	--	100/500	ND	ND	ND	ND	ND	ND	ND	6.6	ND	ND

NOTES:

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CAS_RN = Chemical Abstracts Service Registry Number.

¹ The analytes presented include only these for which at least on analytical results reported a concentration in excess of the NJDEP Groundwater Quality Standards (GWQS).

TICs = Tentatively Identified Compounds.

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID			MW10	MW12	MW15					MW16	MW18	MW20
Lab ID			387209	426050	349626	424614	468969	518880	574575	348496	384921	571862
Sample Date			10/30/2002	5/2/2003	5/10/2002	4/25/2003	10/6/2003	4/9/2004	10/18/2004	5/3/2002	10/21/2002	10/7/2004
Sample Time			13:35	13:30	11:15	15:10	11:15	12:15	15:30	14:45	14:15	
VOCs via EPA Method 624 ¹	CAS_RN	GWQS										
1,1,1-Trichloroethane	71-55-6	30	(0.3) U	(0.2) U	3.8	2.8	1.7	2.6	3.5	7.1	(0.3) U	(0.3) U
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.3) U	(0.2) U	5	3.2	1.8	3.5	5.8	6.2	(0.4) U	(0.4) U
1,1-Dichloroethylene	75-35-4	2	(0.3) U	(0.4) U	1.3	0.7	(0.4) U	0.7	1.2	2.9	(0.3) U	(0.3) U
1,2-Dichloroethane	107-06-2	2	(0.4) U	(0.3) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.4) U	(0.2) U	(0.4) U	(0.2) U	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.3) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.4) U
cis-1,2-Dichloroethene	156-59-2	70	(0.3) U	(0.2) U	5.7	3.3	1.4	2.8	3.9	0.5	(0.3) U	(0.4) U
trans-1,2-Dichloroethene	156-60-5	100	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.3) U
Tetrachloroethene	127-18-4	1	(0.2) U	(0.3) U	1.2	0.6	(0.3) U	0.5	0.9	8.2	(0.2) U	(0.4) U
Trichloroethylene	79-01-6	1	(0.1) U	(0.2) U	1.5	0.8	0.4	0.8	1	1.3	(0.1) U	(0.4) U
Vinyl Chloride	75-01-4	5	(0.3) U	(0.5) U	(0.3) U	(0.5) U	(0.5) U	(0.5) U	(0.4) U	(0.3) U	(0.3) U	(0.4) U
Total VOCs	--	--	ND	ND	18.5	11.4	5.3	10.9	16.3	26.2	ND	ND
Total TICs	--	100/500	3.6	83	ND	ND	ND	ND	ND	ND	26.8	5

NOTES:

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Phillipsburg, New Jersey

Field ID			MW26			MW32		MW33A	MW34	MW35	MW36		MW37
Lab ID			426124	520957	572346	349145	349146	348225	348226	348229	348655	385635	347681
Sample Date			5/5/2003	4/16/2004	10/11/2004	5/8/2002	5/8/2002	5/1/2002	5/1/2002	5/2/2002	5/6/02	10/23/02	4/30/2002
Sample Time			11:45	14:45	15:25	10:30	15:20	10:30	14:30	12:40	15:15	14:45	11:20
VOCs via EPA Method 624 ¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	(0.2) U	(0.2) U	(0.3) U	8.1	7.6	4.3	4.2	70	(0.3) U	(0.3) U	(0.3) U
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.2) U	(0.2) U	(0.4) U	14	14	(0.3) U	(0.3) U	19	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethylene	75-35-4	2	(0.4) U	(0.4) U	(0.3) U	2.1	1.5	2.1	1.2	12	(0.3) U	(0.3) U	(0.3) U
1,2-Dichloroethane	107-06-2	2	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U
1,2-Dichloropropane	78-87-5	1	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U
Carbon tetrachloride	56-23-5	2	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	4.6
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U
cis-1,2-Dichloroethene	156-59-2	70	(0.2) U	(0.2) U	(0.4) U	3.9	3.8	(0.3) U	6.1	1.4	(0.3) U	(0.3) U	(0.3) U
trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U
Tetrachloroethene	127-18-4	1	(0.3) U	(0.3) U	(0.4) U	1.4	1.3	3.6	6.5	3.6	(0.2) U	(0.2) U	(0.20) U
Trichloroethylene	79-01-6	1	(0.1) U	(0.1) U	(0.4) U	2.4	2.1	3.8	7.1	9.2	(0.1) U	(0.1) U	42
Vinyl Chloride	75-01-4	5	(0.3) U	(0.3) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
Total VOCs	--	--	ND	ND	ND	31.9	30.3	13.8	25.1	115.2	ND	ND	47.2
Total TICs	--	100/500	40.5	65	53.7	ND	ND	ND	ND	ND	6.4	4.9	ND

NOTES:

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Phillipsburg, New Jersey

Field ID			MW47			RW03	RW11	RW13	RW14	RW15	TH36	THby4	THWLS
Lab ID	445900 472403 574004			386958	349137	348495	349625	387208	349616	387210	386607		
Sample Date	7/25/2003 10/17/2003 10/13/2004			10/29/2002	5/8/2002	5/3/2002	5/10/2002	10/30/2002	5/9/2002	10/30/2002	10/28/2002		
Sample Time	10:40 14:35 10:50			12:05	14:10	15:18	9:30	8:40	13:55	11:00	10:35		
VOCs via EPA Method 624 ¹	CAS_RN	GWQS											
1,1,1-Trichloroethane	71-55-6	30	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	2.8	5.1	2.1	2.3	(0.3) U	5.5
1,1,2-Trichloroethane	79-00-5	3	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U
1,1-Dichloroethane	75-34-3	50	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.3) U	1.5	8.9	1.2	2.3	(0.3) U	140
1,1-Dichloroethylene	75-35-4	2	(0.4) U	(0.4) U	(0.3) U	0.3	(0.3) U	0.8	(0.3) U	0.4	0.6	(0.3) U	4.4
1,2-Dichloroethane	107-06-2	2	(0.3) U	(0.3) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.7) U
1,2-Dichloropropane	78-87-5	1	(0.2) U	(0.2) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.7) U
Carbon tetrachloride	56-23-5	2	(0.2) U	(0.2) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.6) U
Chloroethane	75-00-3	100	(0.5) U	(0.5) U	(0.4) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	(0.5) U	35
cis-1,2-Dichloroethene	156-59-2	70	(0.2) U	(0.2) U	(0.4) U	(0.3) U	(0.3) U	(0.3) U	1.8	28	2.1	(0.3) U	1.5
trans-1,2-Dichloroethene	156-60-5	100	(0.2) U	(0.2) U	(0.3) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.2) U	(0.5) U
Tetrachloroethene	127-18-4	1	(0.3) U	(0.3) U	(0.4) U	(0.2) U	4.9	1.2	0.9	4.9	2.5	(0.2) U	(0.5) U
Trichloroethylene	79-01-6	1	(0.2) U	(0.2) U	(0.4) U	(0.1) U	(0.10) U	(0.10) U	1.5	9	0.9	(0.1) U	(0.2) U
Vinyl Chloride	75-01-4	5	(0.5) U	(0.5) U	(0.4) U	1.1	(0.3) U	(0.3) U	(0.3) U	(0.3) U	(0.3) U	1.1	20
Total VOCs	--	--	ND	ND	ND	ND	4.9	6.3	18.2	45.6	11.9	ND	206.4
Total TICs	--	100/500	142.2	36.6	69.5	62.8	ND	ND	ND	ND	ND	6.5	8.4

NOTES:

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Field ID			MW01		MW2A	MW03		MW04					MW04Dis		
Lab ID			347679	572350	348228	348653	574008	348654	424610	471921	522746	570691	424618	471922	522754
Sample Date			4/30/2002	10/12/2004	5/2/2002	5/6/2002	10/14/2004	5/6/2002	4/24/2003	10/13/2003	4/22/2004	10/6/2004	4/24/2003	10/13/2003	4/22/2004
Sample Time			10:00	15:25	10:20	10:00	10:20	12:10	10:40	15:20	10:10	10:34	10:40	15:20	10:10
PP-Metals (via 200.7)	CAS_RN	GWQS													
Antimony	7440-36-0	20	--	(3.9) U	--	--	(5.8) U	--	--	--	--	(3.9) U	--	--	--
Arsenic	7440-38-2	8	(3.4) U	(3.5) U	(6.4) U	(3.4) U	(3.2) U	(3.4) U	(3.4) U	(3.4) U	(3.6) U	(3.5) U	(3.4) U	(3.4) U	(3.6) U
Beryllium	7440-41-7	20	--	(0.1) U	--	--	(0.3) U	--	--	--	--	(0.1) U	--	--	--
Cadmium	7440-43-9	4	--	(0.4) U	--	--	(0.4) U	--	--	--	--	(0.4) U	--	--	--
Chromium	7440-47-3	100	5.4	3.1	(3.2) U	(2.8) U	4.4	(2.8) U	--	--	--	(2.8) U	--	--	--
Copper	7440-50-8	1000	--	(3.1) U	--	--	4	--	--	--	--	5	--	--	--
Lead	7439-92-1	10	(2.2) U	(2.2) U	(4.6) U	(2.2) U	(2.6) U	(2.2) U	--	(2.2) U	--	(2.2) U	--	(2.2) U	--
Mercury	7439-97-6	2	--	(0.1) U	--	--	(0.1) U	--	--	--	--	(0.1) U	--	--	--
Nickel	7440-02-0	100	--	(3.9) U	--	--	3.8	--	--	--	--	(3.9) U	--	--	--
Selenium	7782-49-2	50	--	(4.7) U	--	--	(4.2) U	--	--	--	--	(4.7) U	--	--	--
Silver	7440-22-4	NA	--	(0.8) U	--	--	(1.4) U	--	--	--	--	(0.8) U	--	--	--
Thallium	7440-28-0	10	--	(4.4) U	--	--	(4.7) U	--	--	--	--	(4.4) U	--	--	--
Zinc	7440-66-6	5000	--	13.6	--	--	7.2	--	--	--	--	6.3	--	--	--

Field ID			MW06	MW12	MW13	MW16	MW26	MW27	MW27P				MW30		
Lab ID			349141	576534	349622	574010	572346	574012	574013	349618	386198	425479	468970	520952	574005
Sample Date			5/7/2002	10/22/2004	5/9/2002	10/15/2004	10/11/2004	10/15/2004	10/15/2004	5/10/2002	10/24/2002	4/29/2003	10/6/2003	4/15/2004	10/13/2004
Sample Time			13:25	9:30	12:45	11:42	15:25	15:15	15:20	8:50	9:15	12:10	14:15	10:10	13:30
PP-Metals (via 200.7)	CAS_RN	GWQS													
Antimony	7440-36-0	20	--	(5.8) U	--	(5.8) U	(3.9) U	6	(5.8) U	--	--	--	--	--	(5.8) U
Arsenic	7440-38-2	8	(3.4) U	(3.2) U	(3.4) U	(3.2) U	6.7	(3.2) U	(3.2) U	6.8	10.6	(3.4) U	(3.4) U	(3.6) U	(3.2) U
Beryllium	7440-41-7	20	--	(0.3) U	--	(0.3) U	(0.1) U	(0.3) U	(0.3) U	--	--	--	--	--	(0.3) U
Cadmium	7440-43-9	4	--	(0.4) U	--	(0.4) U	(0.4) U	(0.4) U	(0.4) U	--	--	--	--	--	(0.4) U
Chromium	7440-47-3	100	(2.8) U	(1.6) U	4.6	(1.6) U	(2.8) U	2.8	2.4	13.7	--	--	--	--	2.3
Copper	7440-50-8	1000	--	(3.7) U	--	(3.7) U	(3.1) U	(3.7) U	(3.7) U	--	--	--	--	--	3.8
Lead	7439-92-1	10	(2.2) U	(2.6) U	(2.2) U	(2.6) U	(2.2) U	(2.6) U	(2.6) U	13.2	18.2	(2.2) U	(2.2) U	(2.1) U	(2.6) U
Mercury	7439-97-6	2	--	(0.1) U	--	(0.1) U	(0.1) U	(0.1) U	(0.1) U	--	--	--	--	--	(0.1) U
Nickel	7440-02-0	100	--	(2.4) U	--	(2.4) U	(3.9) U	3	2.7	--	--	--	--	--	2.7
Selenium	7782-49-2	50	--	(4.2) U	--	(4.2) U	(4.7) U	(4.2) U	(4.2) U	--	--	--	--	--	(4.2) U
Silver	7440-22-4	NA	--	(1.4) U	--	(1.4) U	(0.8) U	(1.4) U	(1.4) U	--	--	--	--	--	(1.4) U
Thallium	7440-28-0	10	--	(4.7) U	--	(4.7) U	(4.4) U	(4.7) U	(4.7) U	--	--	--	--	--	(4.7) U
Zinc	7440-66-6	5000	--	(5.8) U	--	7.2	7.5	9.7	8.6	--	--	--	--	--	12.3

NOTES:

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APPENDIX A
Historical Groundwater Analytical Summary from April 2002 to Present
Former Ingersoll-Rand Facility
Phillipsburg, New Jersey

Field ID	MW30P			MW30Dis			MW30PDis		MW31	MW31P	MW33A	MW34	
Lab ID	425480	468971	574006	425489	468977	520959	425490	468978	349613	349614	348225	348226	576530
Sample Date	4/29/2003	10/6/2003	10/13/2004	4/29/2003	10/6/2003	4/15/2004	4/29/2003	10/6/2003	5/9/2002	5/9/2002	5/1/2002	5/1/2002	10/20/2004
Sample Time	12:15	14:20	13:35	12:10	14:15	10:10	12:15	14:20	11:00	11:05	10:30	14:30	15:00
PP-Metals (via 200.7)	CAS_RN	GWQS											
Antimony	7440-36-0	20	--	--	(5.8) U	--	--	--	--	--	--	--	(5.8) U
Arsenic	7440-38-2	8	(3.4) U	(3.4) U	(3.2) U	(3.4) U	(3.4) U	(3.6) U	(3.4) U	(3.4) U	(6.4) U	(6.4) U	(3.2) U
Beryllium	7440-41-7	20	--	--	(0.3) U	--	--	--	--	--	--	--	(0.3) U
Cadmium	7440-43-9	4	--	--	(0.4) U	--	--	--	--	--	--	--	(0.4) U
Chromium	7440-47-3	100	--	--	2	--	--	--	(2.8) U	(2.8) U	7	6.2	2.7
Copper	7440-50-8	1000	--	--	(3.7) U	--	--	--	--	--	--	--	(3.7) U
Lead	7439-92-1	10	(2.2) U	(2.2) U	(2.6) U	(2.2) U	(2.2) U	(2.1) U	(2.2) U	(2.2) U	4.6	6.1	(2.6) U
Mercury	7439-97-6	2	--	--	(0.1) U	--	--	--	--	--	--	--	(0.1) U
Nickel	7440-02-0	100	--	--	2.6	--	--	--	--	--	--	--	(2.4) U
Selenium	7782-49-2	50	--	--	(4.2) U	--	--	--	--	--	--	--	(4.2) U
Silver	7440-22-4	NA	--	--	(1.4) U	--	--	--	--	--	--	--	(1.4) U
Thallium	7440-28-0	10	--	--	(4.7) U	--	--	--	--	--	--	--	(4.7) U
Zinc	7440-66-6	5000	--	--	9.5	--	--	--	--	--	--	--	6

Field ID			MW35	MW36					MW36Diss			MW38	MW41	MW42	
Lab ID			348229	348655	385635	424617	471923	522747	570694	424620	471924	522755	347682	201709	201710
Sample Date			5/2/2002	5/6/2002	10/23/2002	4/24/2003	10/13/2003	4/22/2004	10/6/2004	4/25/2003	10/13/2003	4/22/2004	4/30/2002	5/2/2000	5/2/2000
Sample Time			12:40	15:15	14:45	15:20	12:35	12:30	13:00	15:20	12:35	12:30	14:45		
PP-Metals (via 200.7)	CAS_RN	GWQS													
Antimony	7440-36-0	20	--	--	--	--	--	(3.9) U	--	--	--	--	(4.5) U	(4.5) U	
Arsenic	7440-38-2	8	(6.4) U	14.8	23.3	4	(3.4) U	(3.6) U	(3.5) U	(3.4) U	(3.4) U	(3.6) U	(3.4) U	(3.6) U	(3.6) U
Beryllium	7440-41-7	20	--	--	--	--	--	(0.1) U	--	--	--	--	(0.2) U	(0.2) U	
Cadmium	7440-43-9	4	--	--	--	--	--	(0.4) U	--	--	--	--	(0.4) U	0.71	
Chromium	7440-47-3	100	3.8	29.8	--	--	--	(2.8) U	--	--	--	6.4	1.9	4.9	
Copper	7440-50-8	1000	--	--	--	--	--	(3.1) U	--	--	--	--	4.1	(2.7) U	
Lead	7439-92-1	10	(4.6) U	51.2	97.6	13.5	(2.2) U	2.6	(2.2) U	(2.2) U	(2.2) U	(2.1) U	(2.2) U	(2.1) U	(2.1) U
Mercury	7439-97-6	2	--	--	--	--	--	(0.1) U	--	--	--	--	(0.1) U	(0.1) U	
Nickel	7440-02-0	100	--	--	--	--	--	(3.9) U	--	--	--	--	(1.4) U	2.8	
Selenium	7782-49-2	50	--	--	--	--	--	(4.7) U	--	--	--	--	(4.5) U	(4.5) U	
Silver	7440-22-4	NA	--	--	--	--	--	(0.8) U	--	--	--	--	(1.1) U	4.6	
Thallium	7440-28-0	10	--	--	--	--	--	(4.4) U	--	--	--	--	(4.1) U	(4.1) U	
Zinc	7440-66-6	5000	--	--	--	--	--	10.7	--	--	--	--	6.1	7.3	

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APPENDIX A
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Field ID			MW39						MW39P	MW39Diss			MW40
Lab ID			349144	386199	424613	471925	522748	576536	386204	424619	471926	522756	201708
Sample Date			5/8/2002	10/24/2002	4/25/2003	10/13/2003	4/22/2004	10/22/2004	10/24/2002	4/24/2003	10/13/2003	4/22/2004	5/2/2000
Sample Time			15:20	12:00	12:10	16:20	13:30	13:00	12:05	12:10	16:20	13:30	
PP-Metals (via 200.7)	CAS_RN	GWQS											
Antimony	7440-36-0	20	--	--	--	--	--	(5.8) U	--	--	--	--	(4.5) U
Arsenic	7440-38-2	8	13.5	13.9	12.1	(3.4) U	(3.6) U	(3.2) U	12.6	(3.4) U	(3.4) U	(3.6) U	(3.6) U
Beryllium	7440-41-7	20	--	--	--	--	--	(0.3) U	--	--	--	--	(0.2) U
Cadmium	7440-43-9	4	--	--	--	--	--	(0.4) U	--	--	--	--	(0.4) U
Chromium	7440-47-3	100	155	95.6	--	--	--	21.3	86.1	--	--	--	(1.1) U
Copper	7440-50-8	1000	--	--	--	--	--	(3.7) U	--	--	--	--	2.9
Lead	7439-92-1	10	114	157	132	9.5	(2.1) U	(2.6) U	166	(2.2) U	(2.2) U	(2.1) U	(2.1) U
Mercury	7439-97-6	2	--	--	--	--	--	(0.1) U	--	--	--	--	(0.1) U
Nickel	7440-02-0	100	--	--	--	--	--	15.6	--	--	--	--	3.3
Selenium	7782-49-2	50	--	--	--	--	--	(4.2) U	--	--	--	--	(4.5) U
Silver	7440-22-4	NA	--	--	--	--	--	(1.4) U	--	--	--	--	(1.1) U
Thallium	7440-28-0	10	--	--	--	--	--	(4.7) U	--	--	--	--	(4.1) U
Zinc	7440-66-6	5000	--	--	--	--	--	13	--	--	--	--	8.5

Field ID			MW43A	MW44	MW45	MW 49	MW50	MW54		MW54dis	RW11Dis		
Lab ID			210711	210712	210713	571867	570692	521873	574574	521884	424939	465556	518884
Sample Date			5/2/2000	5/2/2000	5/2/2000	10/8/2004	10/6/2004	4/19/2004	10/18/2004	4/19/2004	4/28/2003	9/26/2003	4/9/2004
Sample Time						15:40	16:20	17:30	14:40	17:30	16:10	10:05	10:10
PP-Metals (via 200.7)	CAS_RN	GWQS											
Antimony	7440-36-0	20	(4.5) U	(4.5) U	(4.5) U	(3.9) U	(3.9) U	(3.9) U	(5.8) U	(3.9) U	--	--	--
Arsenic	7440-38-2	8	(3.6) U	(3.6) U	(3.6) U	(3.5) U	(3.5) U	(3.4) U	(3.2) U	(3.4) U	--	--	--
Beryllium	7440-41-7	20	(0.2) U	(0.2) U	(0.2) U	(0.1) U	(0.1) U	(0.1) U	(0.3) U	(0.1) U	--	--	--
Cadmium	7440-43-9	4	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	(0.4) U	--	--	--
Chromium	7440-47-3	100	4.4	7.1	7.4	(2.8) U	3.8	(2.8) U	(1.6) U	(2.8) U	84.2	93.2	30.3
Copper	7440-50-8	1000	(2.7) U	(2.7) U	10.7	6.4	9.4	(2.1) U	(3.7) U	(2.1) U	--	--	--
Lead	7439-92-1	10	(2.1) U	(2.1) U	3.3	(2.2) U	(2.2) U	(2.2) U	(2.6) U	(2.2) U	--	--	--
Mercury	7439-97-6	2	(0.1) U	(0.1) U	(0.1) U	(0.1) U	(0.1) U	(0.1) U	(0.1) U	(0.1) U	--	--	--
Nickel	7440-02-0	100	2.3	1.7	10.3	12.9	(3.9) U	(3.9) U	(2.4) U	(3.9) U	--	--	--
Selenium	7782-49-2	50	(4.5) U	(4.5) U	(4.5) U	(4.7) U	(4.7) U	(3.9) U	(4.2) U	(3.9) U	--	--	--
Silver	7440-22-4	NA	(1.1) U	2.6	(1.1) U	(0.8) U	(0.8) U	(0.7) U	(1.4) U	(0.7) U	--	--	--
Thallium	7440-28-0	10	(4.1) U	(4.1) U	(4.1) U	(4.4) U	(4.4) U	(4.4) U	(4.7) U	(4.4) U	--	--	--
Zinc	7440-66-6	5000	15.1	13.1	23.3	6.7	7.1	11.5	8.9 B	11.6	--	--	--

NOTES:

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Field ID			RW09				RW09Dis			RW11					
Lab ID			425485	465536	520956	574578	425491	465557	520962	349137	385633	424936	465535	518879	574577
Sample Date			4/30/2003	9/26/2003	4/15/2004	10/19/2004	4/30/2003	9/26/2003	4/15/2004	5/8/2002	10/23/2002	4/28/2003	9/26/2003	4/9/2004	10/19/2004
Sample Time			15:00	11:20	14:55	11:40	15:00	11:20	14:55	14:10	10:13	16:10	10:05	10:10	9:25
PP-Metals (via 200.7)	CAS_RN	GWQS													
Antimony	7440-36-0	20	--	--	--	(5.8) U	--	--	--	--	--	--	--	--	(5.8) U
Arsenic	7440-38-2	8	(3.4) U	(3.2) U	3.9	(3.2) U	3.7	(3.2) U	(3.6) U	(3.4) U	--	--	--	--	(3.2) U
Beryllium	7440-41-7	20	--	--	--	(0.3) U	--	--	--	--	--	--	--	--	(0.3) U
Cadmium	7440-43-9	4	--	--	--	(0.4) U	--	--	--	--	--	--	--	--	(0.4) U
Chromium	7440-47-3	100	--	--	--	(1.6) U	--	--	--	118	125	84.5	108	38.3	68.7
Copper	7440-50-8	1000	--	--	--	(3.7) U	--	--	--	--	--	--	--	--	(3.7) U
Lead	7439-92-1	10	(2.2) U	(2.3) U	(2.1) U	(2.6) U	(2.2) U	(2.3) U	(2.1) U	(2.2) U	--	--	--	--	(2.6) U
Mercury	7439-97-6	2	--	--	--	(0.1) U	--	--	--	--	--	--	--	--	(0.1) U
Nickel	7440-02-0	100	--	--	--	(2.4) U	--	--	--	--	--	--	--	--	(2.4) U
Selenium	7782-49-2	50	--	--	--	(4.2) U	--	--	--	--	--	--	--	--	(4.2) U
Silver	7440-22-4	NA	--	--	--	(1.4) U	--	--	--	--	--	--	--	--	(1.4) U
Thallium	7440-28-0	10	--	--	--	(4.7) U	--	--	--	--	--	--	--	--	(4.7) U
Zinc	7440-66-6	5000	--	--	--	82	--	--	--	--	--	--	--	--	17.4 B

Field ID			RW13	TH36					TH36Dis			
Lab ID			576529	349616	386201	425478	471935	520953	574580	425488	471936	520960
Sample Date			10/20/2004	5/9/2002	10/24/2002	4/29/2003	10/15/2003	4/15/2004	10/19/2004	4/29/2003	10/15/2003	4/15/2004
Sample Time			11:40	13:55	16:55	10:20	16:15	13:00	14:40	10:20	16:15	13:00
PP-Metals (via 200.7)	CAS_RN	GWQS										
Antimony	7440-36-0	20	(5.8) U	--	--	--	--	--	(5.8) U	--	--	--
Arsenic	7440-38-2	8	(3.2) U	38.7	5	4.7	(3.4) U	(3.6) U	(3.2) U	(3.4) U	(3.4) U	(3.6) U
Beryllium	7440-41-7	20	(0.3) U	--	--	--	--	--	(0.3) U	--	--	--
Cadmium	7440-43-9	4	(0.4) U	--	--	--	--	--	(0.4) U	--	--	--
Chromium	7440-47-3	100	9.9	20.8	--	--	--	--	12.1	--	--	--
Copper	7440-50-8	1000	(3.7) U	--	--	--	--	--	(3.7) U	--	--	--
Lead	7439-92-1	10	(2.6) U	51.4	7.2	5.3	(2.2) U	(2.1) U	(2.6) U	(2.2) U	(2.2) U	(2.1) U
Mercury	7439-97-6	2	(0.1) U	--	--	--	--	--	(0.1) U	--	--	--
Nickel	7440-02-0	100	3.2	--	--	--	--	--	9.4 B	--	--	--
Selenium	7782-49-2	50	(4.2) U	--	--	--	--	--	(4.2) U	--	--	--
Silver	7440-22-4	NA	(1.4) U	--	--	--	--	--	(1.4) U	--	--	--
Thallium	7440-28-0	10	(4.7) U	--	--	--	--	--	(4.7) U	--	--	--
Zinc	7440-66-6	5000	9.5	--	--	--	--	--	9.1 B	--	--	--

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APPENDIX B

Well Installation Information

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

Name of Owner: INGERSOLL RAND CORPORATION
Name of Facility: SAME
Location: 942 MEMORIAL PARKWAY, PHILLIPSBURG, WARREN COUNTY
UST Registration No.: _____ BUST case No.: _____ - _____ - _____

CERTIFICATION

Well Permit Number: 24 - 00043903 - Owner's Well Number MW-51A
Well Completion Date: 12/17/04 Lithologic Log: Attach
Distance from Top of Casing (cap off) to
ground surface (one-hundredth of a foot): 142'
Total Depth of Well to the nearest 1/2 foot: 140'
Depth to Top of ~~Screen (or Top of Open Hole)~~ PERFORATED CASING
From Top of Casing (one-hundredth of a foot): 115-135'
~~PERFORATED~~
Screen Length (or length of open hole) in feet: 20'
Screen or Slot Size: 0
Screen or Slot Material: 0
Casing Material: (PVC, Steel or Other-Specify): STEEL
Casing Diameter (inches): 6"
Static Water Level From Top of Casing at the Time
of Installation (one-hundredth of a foot): 82'
Yield (gallons per minute): 5 GPM
Development Technique (specify): AIR
Length of Time Well is Developed/Pumped or Bailed: 1 Hours 30 Minutes

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Technical Certification:MICHAEL ASSANTE

Name (Type or Print)

Signature

NJ M775

Seal

Certification or License No.

Certification by Executive Officer or Duly Authorized Representative:MICHAEL ASSANTE

Name (Type or Print)

Signature

Date

Title: PRESIDENT10/07/05

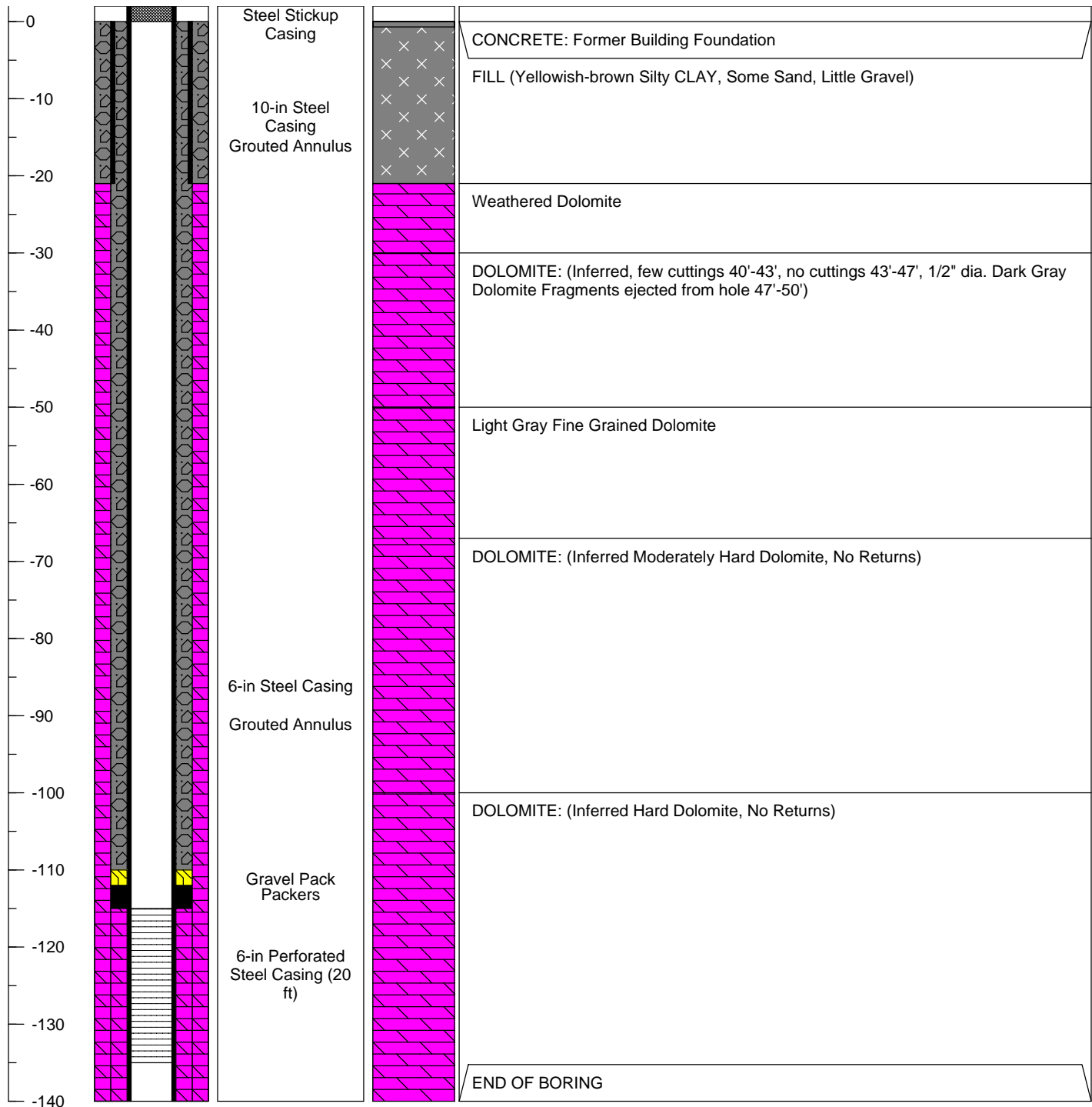
Client: Ingersoll-Rand
Location: Phillipsburg, NJ
Project # 03710-167
Geologist: Arun Krish
Drilling Company: Plainfield Well
Drilling Method: Air Rotary

Drilling Date: 12/13/2004
Well Completion Date: 12/17/2004
Total Depth (feet): 140.00
State Plane X: 305443.2
Y: 676496.5



Well ID:
MW51A

Depth	Construction	Construction Description	Symbol	Lithologic Description
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Notes:

APPENDIX C

Laboratory Analytical Data Reports and Electronic Data Deliverable (EDD) Diskette

(included in the original hardcopy report and electronic report)

APPENDIX D

Groundwater Purging and Sampling Logs

GROUNDWATER SAMPLING EVENT
OCTOBER 2004



Groundwater Purging and Sampling Field Log

Well ID #: **MW01**Page 1 of 1Date: **10/12/2004**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404Technicians: N. Oliveira, J. Holzer**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**


Well Diameter (in):	6	inches	Volume of Standing Water (gal):	41.20 gallons
Depth to Water (ft):	94.64	feet		
Depth to Bottom (ft):	122.7	feet	Minimum Volume to be Purged (gal):	125.00 gallons
Height of Water Column (ft):	28.06	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	14:17	to	15:15
Sampling Time:	15:25		
Analytical Parameters:	VO+10; PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	14:17	14:50	15:15	The purge water is clear and odorless.
Depth to Water (ft.)	94.68	95.49	95.50	The pump is set 99 feet below top of casing.
pH (SU)	8.29	8.51	8.61	14:26 Purging stopped unable to get water meters to work; ~27 gallons purged
Temp. (°C)	14.50	14.14	14.41	14:40 Restart purging at 3 gpm DTW = 95.05
DO (mg/l)	11.14	11.00	10.75	
Cond. (mS/cm)	0.285	0.385	0.404	
Turbidity (Ntu)	59.4	79.6	53.2	
ORP (mV)	248	249	239	
Est. Purge Vol. (gal.)	~130			
Average Purge Rate (gal/min.)	3.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	<p>Well ID #: <u>MW2A</u></p> <p>Date: <u>10/21/2004</u></p>	<p>Page <u>1</u> of <u>1</u></p>
<p>Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u></p> <p>Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u></p> <p>Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u></p> <p>Technicians: <u>J. Holzer & B. Yagel</u></p>	<p style="text-align: center;">SITE OBSERVATIONS (circle)</p> <p>1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No</p> <p>2) Was structural integrity good? <input checked="" type="radio"/> Yes No</p> <p>3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.)</p> <p style="text-align: right;">Yes <input checked="" type="radio"/> No</p>	

Well Data and Volume Calculations


Well Diameter (in):	6	inches	Volume of Standing Water (gal):	59.73 gallons
Depth to Water (ft):	92.04	feet		
Depth to Bottom (ft):	132.67	feet	Minimum Volume to be Purged (gal):	179.19 gallons
Height of Water Column (ft):	40.63	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	9:10	to	13:15
Sampling Time:	13:45		
Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	9:10	11:40	13:15	The purge water is clear and odorless. The pump is set 130 feet below top of casing.
Depth to Water (ft.)	94.02	110.87	126.30	Despite 0.5 gpm rate, unable to keep minimum drawdown, therefore only purged
pH (SU)	6.90	7.76	8.26	two well volumes.
Temp. (°C)	13.67	14.86	15.78	
DO (mg/l)	1.12	3.10	2.70	
Cond. (mS/cm)	0.69	.646	0.64	
Turbidity (Ntu)	0.0	0.5	0.0	
ORP (mV)	291.0	252.0	174.0	
Est. Purge Vol. (gal.)	~125			
Average Purge Rate (gal/min.)	0.5			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW03</u> Date: <u>10/14/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>J. Holzer & N. Oliveira</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>	

Well Data and Volume Calculations


Well Diameter (in):	6	inches	Volume of Standing Water (gal):	75.7	gallons
Depth to Water (ft):	75.33	feet			
Depth to Bottom (ft):	126.83	feet	Minimum Volume to be Purged (gal):	227.1	gallons
Height of Water Column (ft):	51.5	feet			

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	8:55	to	10:05
Sampling Time:	10:20		
Analytical Parameters:	VO+10; PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	8:55	9:35	10:05	The purge water is clear and odorless.
Depth to Water (ft.)	75.32	NA	75.60	Lost 10 minutes due to problems w/pump & water flow
pH (SU)	7.83	7.69	7.72	stopped 9:10 DTW = 75.35'
Temp. (°C)	13.80	13.54	13.48	start 9:15 @ 4 gpm
DO (mg/l)	6.63	4.18	3.89	stopped 9:20
Cond. (mS/cm)	1.03	1.07	1.09	start 9:25 @ 4 gpm
Turbidity (Ntu)	5.5	10.7	10.6	The pump is set 80 feet below top of casing.
ORP (mV)	225.0	246.0	247.0	
Est. Purge Vol. (gal.)	~240			
Average Purge Rate (gal/min.)	4.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	<p>Well ID #: <u>MW04</u></p> <p>Date: <u>10/6/2004</u></p>	<p>Page <u>1</u> of <u>1</u></p>
<p>Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u></p> <p>Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u></p> <p>Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u></p> <p>Technicians: <u>N. Oliveira & N. Ishman</u></p>	<p style="text-align: center;">SITE OBSERVATIONS (circle)</p> <p>1) Was well locked upon arrival? Yes <input checked="" type="radio"/> No</p> <p>2) Was structural integrity good? Yes <input checked="" type="radio"/> No</p> <p>3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.)</p> <p style="text-align: right;">Yes No <input checked="" type="radio"/></p>	

Well Data and Volume Calculations

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	60.60	gallons
Depth to Water (ft):	86.95	feet	Minimum Volume to be Purged (gal):	182.00	gallons
Depth to Bottom (ft):	128.2	feet			
Height of Water Column (ft):	41.25	feet			

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	9:28	to	10:30
Sampling Time:	10:39		
Analytical Parameters:	PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	9:28	10:05	10:20	The purge water is clear and odorless.
Depth to Water (ft.)	90.40	90.90	89.82	The pump is set 95 feet below top of casing.
pH (SU)	6.86	7.16	7.08	
Temp. (°C)	13.82	13.48	13.88	
DO (mg/l)	3.41	3.27	2.02	
Cond. (mS/cm)	1.52	1.43	1.44	
Turbidity (Ntu)	14.4	6.6	4.7	
ORP (mV)	311	282	211	
Est. Purge Vol. (gal.)	~185			
Average Purge Rate (gal/min.)	3.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.



Groundwater Purging and Sampling Field Log

Well ID #: MW12Page 1 of 1Date: 10/22/2004Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

☒ Yes☐ NoTechnicians: J. Holzer & B. Yagel**Well Data and Volume Calculations**

Well Diameter (in):	<u>8 inches</u>	Volume of Standing Water (gal):	<u>NA</u>	<u>gallons</u>
Depth to Water (ft):	<u>95.37 feet</u>			
Depth to Bottom (ft):	<u>157 feet</u>	Minimum Volume to be Purged (gal):	<u>NA</u>	<u>gallons</u>
Height of Water Column (ft):	<u>NA feet</u>			


Purging and Sampling Details

Purging Method:	<u>Low flow - 2" Grundfos Pump</u>
Purge Times:	<u>8:55</u> to <u>9:20</u>
Sampling Time:	<u>9:30</u>
Analytical Parameters:	<u>PP Metals</u>

	Before Purge	During Purge					Before Sampling			
Time	8:55	9:00	9:05	9:10	9:15	9:20				
Depth to Water (ft.)	95.78	95.78	95.78	95.78	95.78	95.78				
pH (SU)	6.84	7.07	7.21	7.23	7.29	7.38				
Temp. (°C)	12.95	14.04	14.09	14.38	14.35	14.41				
DO (mg/l)	4.87	4.79	4.83	4.87	4.87	4.89				
Cond. (mS/cm)	0.999	0.900	0.900	0.900	0.999	0.900				
Turbidity (Ntu)	0.5	0.0	0.0	0.0	0.0	0.0				
ORP (mV)	38	27	10	-2	-7	-17				
Est. Purge Vol. (gal.)										
Purge Rate (L/min.)	0.70	0.70	0.70	0.70	0.70	0.70				
PID (ppm)	NA									
Notes:	The purge water is clear with a slight petro- like odor present at 0900. The pump set at 127 feet below top of casing.									

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61


Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW13</u> Date: <u>10/14/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>J. Holzer, N. Oliveira</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes <input checked="" type="radio"/> No </div> </div>	

Well Data and Volume Calculations					Purging and Sampling Details			
Well Diameter (in):	8	inches	Volume of Standing		Purging Method:	Conventional - 2" Grundfos Pump		
Depth to Water (ft):	89.95	feet	Water (gal):	286.2 gallons	Purge Times:	11:24	to	16:15
Depth to Bottom (ft):	199.6	feet	Minimum		Sampling Time:	16:24		
Height of Water Column (ft):	109.65	feet	Volume to be Purged (gal):	858.6 gallons	Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	11:24	13:15	16:15	The purge water is clear with no odors or sheens present.
Depth to Water (ft.)	89.90	NR	100.90	The pump is set at 105 feet below top of casing.
pH (SU)	7.31	7.38	7.38	
Temp. (°C)	13.72	14.13	14.41	
DO (mg/l)	2.62	3.01	1.60	
Cond. (mS/cm)	1.65	1.52	1.51	
Turbidity (Ntu)	4.4	4.7	3.3	
ORP (mV)	254	249	221	
Est. Purge Vol. (gal.)	~873			
Average Purge Rate (gal/min.)	3.0			
PID (ppm)	NA			


Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW15</u> Date: <u>10/18/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>J. Holzer & B. Yagel</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>	

Well Data and Volume Calculations					Purging and Sampling Details			
Well Diameter (in):	4	inches	Volume of Standing Water (gal):	24.45 gallons	Purging Method:	Conventional - 2" Grundfos Pump		
Depth to Water (ft):	95.38	feet			Purge Times:	14:50	to	15:15
Depth to Bottom (ft):	133	feet	Minimum Volume to be Purged (gal):	73.35 gallons	Sampling Time:	15:30		
Height of Water Column (ft):	37.62	feet			Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	14:50	15:00	15:15	The purge water is clear with a purge rate of 3 gallons/minute.
Depth to Water (ft.)	95.48	95.51	95.53	The pump is set at 100 feet below top of casing.
pH (SU)	7.82	7.80	7.86	
Temp. (°C)	16.03	15.75	15.65	
DO (mg/l)	4.39	4.32	4.50	
Cond. (mS/cm)	1.19	1.20	1.20	
Turbidity (Ntu)	4.7	1.2	4.5	
ORP (mV)	151	146	159	
Est. Purge Vol. (gal.)	74.0			
Average Purge Rate (gal/min.)	3.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW16</u> Date: <u>10/15/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>J. Holzer & N. Oliveira</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes <input type="radio"/> No 2) Was structural integrity good? <input checked="" type="radio"/> Yes <input type="radio"/> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>	

Well Data and Volume Calculations


Well Diameter	8	inches	Volume of Standing Water (gal):	299.16 gallons
Depth to Water (ft):	84.78	feet		
Depth to Bottom (ft):	199.4	feet	Minimum Volume to be Purged (gal):	897.47 gallons
Height of Water	114.62	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	8:08	to	11:30
Sampling Time:	11:42		
Analytical Parameters:	PP metals		

	Before Purge	During Purge	Before Sampling	Notes: Purge water is clear. MW16 has an 8-in well casing instead of reported 6-in casing. Due to large purge volume and drawdown, unable to get 3 well volumes.				
	Time	Time	Time	Time	Rate(gpm)	DTW(Feet)	Time	DTW(feet)
Depth to Water (ft.)	8:08	9:55	11:30	stop 8:12	3	89.5	10:40	138.44
pH (SU)	8.06	8.61	8.45	start 8:15	3.5		11:00	133.15
Temp. (°C)	15.56	15.46	16.05	stop 8:25		101.47	start 11:02	
DO (mg/l)	3.88	3.84	6.22	start 8:33	3		stop 11:23	148.00
Cond. (mS/cm)	0.876	0.814	0.889	stop 8:44		110.13	start 11:28	
Turbidity (Ntu)	4.8	4.6	7.5	start 8:52	3	81.13	stop 11:30	
ORP (mV)	253	217	179	stop 9:34		138.00	11:45	144.05
Est. Purge Vol. (gal.)	~322			start 9:47	2.5			
Purge Rate	3.0			9:54	3	The pump is set 155 feet below top of casing.		
PID (ppm)	NA			stop 10:04		147.46		


Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW18</u> Date: <u>10/6/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>N. Oliveira, N. Ishman</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes <input checked="" type="radio"/> No </div> </div>	

Well Data and Volume Calculations					Purging and Sampling Details			
Well Diameter (in):	8	inches	Volume of Standing Water (gal):	30.07 gallons	Purging Method:	Conventional - 2" Grundfos Pump		
Depth to Water (ft):	82.78	feet			Purge Times:	14:22	to	15:23
Depth to Bottom (ft):	94.3	feet	Minimum Volume to be Purged (gal):	90.20 gallons	Sampling Time:	15:30		
Height of Water Column (ft):	11.52	feet			Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	14:22	14:52	15:23	The purge water is cloudy.
Depth to Water (ft.)	84.78	84.89	84.69	The pump is set at 90 feet below top of casing.
pH (SU)	7.85	8.00	7.94	
Temp. (°C)	13.18	13.40	14.30	
DO (mg/l)	2.64	7.75	11.23	
Cond. (mS/cm)	0.559	0.521	0.535	
Turbidity (Ntu)	649.0	353.0	156.0	
ORP (mV)	247	190	35	
Est. Purge Vol. (gal.)	~91			
Average Purge Rate (gal/min.)	1.5			Previous depth reported to be 113.8 ft.
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	<p>Well ID #: <u>MW19</u></p> <p>Date: <u>10/7/2004</u></p>	<p>Page <u>1</u> of <u>1</u></p>
<p>Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u></p> <p>Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u></p> <p>Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u></p> <p>Technicians: <u>G. Mattes, B. Yagel</u></p>	<p style="text-align: center;">SITE OBSERVATIONS (circle)</p> <p>1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No</p> <p>2) Was structural integrity good? <input checked="" type="radio"/> Yes No</p> <p>3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.)</p> <p style="text-align: right;">Yes <input checked="" type="radio"/> No</p>	

Well Data and Volume Calculations					Purging and Sampling Details			
Well Diameter (in):	6	inches	Volume of Standing Water (gal):	94 gallons	Purging Method:	Conventional - 2" Grundfos Pump		
Depth to Water (ft):	85.1	feet			Purge Times:	9:25	to	11:25
Depth to Bottom (ft):	149.2	feet	Minimum Volume to be Purged (gal):	282 gallons	Sampling Time:	11:40		
Height of Water Column (ft):	64.2	feet			Analytical Parameters:	VO+10		

	Before Purge	Before Purge	Before Sampling	Notes:
Time	9:25	10:31	11:25	The purge water is clear with no odor.
Depth to Water (ft.)	89.51	88.39	85.21	The pump was stopped at 0937 for 2 minutes with water level at 89.43 ft and 3.5
pH (SU)	7.04	7.63	7.75	gallons purged.
Temp. (°C)	12.74	14.58	15.42	The pump turned off 9:45-9:55 - pump on 1 minute and off again
DO (mg/l)	6.14	6.09	5.49	An error on control box UCL - call find out meaning - under current
Cond. (mS/cm)	.678	.700	.685	10:04 - now flow rate at 2.5 gpm - try 85 minutes with new flow rate called
Turbidity (Ntu)	8.3	62.0	2.1	to get new control box
ORP (mV)	338	264	263	The pump is set at 95 feet below top of casing.
Est. Purge Vol. (gal.)	~290			
Average Purge Rate (gal/min.)	4.0			
PID (ppm)	NA			


Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div> </div>	<p>Well ID #: <u>MW20</u></p> <p>Date: <u>10/7/2004</u></p>	<p>Page <u>1</u> of <u>1</u></p>
<p>Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u></p> <p>Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u></p> <p>Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u></p> <p>Technicians: <u>G.Mattes and B. Yagel</u></p>	<p style="text-align: center;">SITE OBSERVATIONS (circle)</p> <p>1) Was well locked upon arrival? Yes No</p> <p>2) Was structural integrity good? Yes No</p> <p>3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.)</p> <p style="text-align: right;">Yes No</p>	

Well Data and Volume Calculations				Purging and Sampling Details			
Well Diameter (in):	6	inches	Volume of Standing Water (gal):	105.30	Purging Method:	Conventional - 2" Grundfos Pump	
Depth to Water (ft):	65.97	feet			Purge Times:	13:23	to 15:10
Depth to Bottom (ft):	137.6	feet	Minimum Volume to be Purged (gal):	316.00	Sampling Time:	15:15	
Height of Water Column (ft):	71.63	feet			Analytical Parameters:	VO+10	

	Before Purge	During Purge	Before Sampling	Notes:
Time	13:23	14:30	15:10	Purge water is clear and odorless.
Depth to Water (ft.)	70.65	81.33	66.37	Mild petro-like odor
pH (SU)	7.67	7.54	7.58	Interface probe has an odor and greasy feeling to it.
Temp. (°C)	15.55	15.95	14.50	Pump set at 85 feet below top of casing.
DO (mg/l)	4.04	1.97	2.24	
Cond. (mS/cm)	0.563	.610	.626	
Turbidity (Ntu)	59.2	72.2	75.2	
ORP (mV)	238	-130	-131	
Est. Purge Vol. (gal.)	~320			
Average Purge Rate (gal/min.)	3.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW24</u> Date: <u>10/12/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>N. Oliveira, J. Holzer</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes <input checked="" type="radio"/> No </div> </div>	

Well Data and Volume Calculations					Purging and Sampling Details			
Well Diameter (in):	8	inches	Volume of Standing Water (gal):	138.8 gallons	Purging Method:	Conventional - 2" Grundfos Pump		
Depth to Water (ft):	96.41	feet			Purge Times:	8:50	to	11:49
Depth to Bottom (ft):	149.6	feet	Minimum Volume to be Purged (gal):	416.5 gallons	Sampling Time:	12:00		
Height of Water Column (ft):	53.19	feet			Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	8:50	10:30	11:49	Purge water is clear no odors or sheens. Pump is set at 100 feet below top of casing.
Depth to Water (ft.)	96.40	96.95	96.95	Time DTW Vol Purged Rate
pH (SU)	7.30	7.43	7.54	9:00 96.41 30gal 1.5gpm
Temp. (°C)	13.54	15.11	15.81	9:10 96.76 55gal 2.2gpm
DO (mg/l)	8.21	6.99	11.26	9:20 96.8 85gal 2.2gpm
Cond. (mS/cm)	1.72	1.82	1.81	9:30 96.8 2.2gpm
Turbidity (Ntu)	0.0	0.0	0.0	9:35 96.88 2.2gpm
ORP (mV)	268.0	268	283	10:00 96.92
Est. Purge Vol. (gal.)	~422			10:25 96.94
Average Purge Rate (gal/min.)	1.5 to 2.5			11:00 96.95
PID (ppm)	NA			11:30 96.95

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

<div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW26</u> Date: <u>10/11/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u>	SITE OBSERVATIONS (circle)	
Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u>	1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No	
Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u>	2) Was structural integrity good? <input checked="" type="radio"/> Yes No	
Technicians: <u>N. Oliveira, J. Holzer</u>	3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <input checked="" type="radio"/> Yes No	

Well Data and Volume Calculations

Well Diameter (in):	8	inches			
Depth to Water (ft):	69.67	feet	Volume of Standing Water (gal):	223.8	gallons
Depth to Bottom (ft):	155.41	feet	Minimum Volume to be Purged (gal):	671.3	gallons
Height of Water Column (ft):	85.74	feet			

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump			
Purge Times:	9:47	to	15:38	
Sampling Time:	15:45			
Analytical Parameters:	VO+10; PP metals			

	Before Purge	During Purge	Before Sampling	Notes:																																																		
Time	9:47	13:30	15:38	Purge water is slightly cloudy/turbid with a petro odor and initially a sheen.																																																		
Depth to Water (ft.)	71.43	86.06	85.75	Pump is set at 90 ft below top of casing. An odor & greasy feeling noted during sampling																																																		
pH (SU)	6.60	7.16	7.37	<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Time</th> <th style="width: 15%;">Rate(gpm)</th> <th style="width: 25%;">DTW(Feet)</th> <th style="width: 35%;">Time</th> <th style="width: 15%;">DTW(feet)</th> </tr> <tr> <td>9:50</td> <td style="text-align: center;">2</td> <td style="text-align: center;">75</td> <td>11:30</td> <td style="text-align: center;">85.35</td> </tr> <tr> <td>9:55</td> <td style="text-align: center;">1.7</td> <td style="text-align: center;">76</td> <td>11:47</td> <td style="text-align: center;">85.6</td> </tr> <tr> <td>10:00</td> <td style="text-align: center;">1</td> <td style="text-align: center;">76.59</td> <td>12:00</td> <td style="text-align: center;">85.83</td> </tr> <tr> <td>10:18</td> <td style="text-align: center;">1</td> <td style="text-align: center;">77.51</td> <td>12:30</td> <td style="text-align: center;">86.04</td> </tr> <tr> <td>10:35</td> <td style="text-align: center;">2</td> <td style="text-align: center;">78.03</td> <td>13:00</td> <td style="text-align: center;">86.05</td> </tr> <tr> <td>10:45</td> <td></td> <td style="text-align: center;">81.13</td> <td>13:30</td> <td style="text-align: center;">86.00</td> </tr> <tr> <td>11:00</td> <td></td> <td style="text-align: center;">84.02</td> <td>14:10</td> <td style="text-align: center;">86.08</td> </tr> <tr> <td>11:15</td> <td></td> <td style="text-align: center;">84.7</td> <td>15:00</td> <td style="text-align: center;">86.15</td> </tr> <tr> <td></td> <td></td> <td></td> <td>15:30</td> <td style="text-align: center;">86.21</td> </tr> </table>	Time	Rate(gpm)	DTW(Feet)	Time	DTW(feet)	9:50	2	75	11:30	85.35	9:55	1.7	76	11:47	85.6	10:00	1	76.59	12:00	85.83	10:18	1	77.51	12:30	86.04	10:35	2	78.03	13:00	86.05	10:45		81.13	13:30	86.00	11:00		84.02	14:10	86.08	11:15		84.7	15:00	86.15				15:30	86.21
Time	Rate(gpm)	DTW(Feet)	Time	DTW(feet)																																																		
9:50	2	75	11:30	85.35																																																		
9:55	1.7	76	11:47	85.6																																																		
10:00	1	76.59	12:00	85.83																																																		
10:18	1	77.51	12:30	86.04																																																		
10:35	2	78.03	13:00	86.05																																																		
10:45		81.13	13:30	86.00																																																		
11:00		84.02	14:10	86.08																																																		
11:15		84.7	15:00	86.15																																																		
			15:30	86.21																																																		
Temp. (°C)	12.70	16.19	14.34																																																			
DO (mg/l)	4.17	1.87	2.03																																																			
Cond. (mS/cm)	0.693	0.653	0.671																																																			
Turbidity (Ntu)	98.7	46.4	28.1																																																			
ORP (mV)	298	-136	-138																																																			
Est. Purge Vol. (gal.)	~676																																																					
Average Purge Rate (gal/min.)	1 to 2																																																					
PID (ppm)	NA																																																					


Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

Groundwater Purging and Sampling Field Log	Well ID #: MW27 Date: 10/15/2004	Page <u> 1 </u> of <u> 1 </u>
Site Location: Ingersoll Rand - Phillipsburg, New Jersey Street Address: 942 Memorial Parkway City: Phillipsburg State: NJ Client Name: Ingersoll Rand Project Number: 03710-162-404 Technicians: J. Holzer & B. Yagel	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes <input checked="" type="radio"/> No </div>	

Well Data and Volume Calculations				Purging and Sampling Details			
Well Diameter	6 inches	Volume of Standing Water (gal):	85.08 gallons	Purging Method:	Conventional - 2" Grundfos Pump		
Depth to Water (ft):	82.12 feet			Purge Times:	12:55	to	15:05
Depth to Bottom (ft):	140 feet	Minimum Volume to be Purged (gal):	255.2 gallons	Sampling Time:	15:15/DUP 15:20		
Height of Water Column	57.88 feet			Analytical Parameters:	VO+10, PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	12:55	14:00	15:05	Purge water is clear, pump is set at 85 feet below top of casing.
Depth to Water (ft.)	82.12	NR	82.18	A MW27 duplicate is collected for VO + 10, PP metals at 1520.
pH (SU)	8.44	8.42	8.43	
Temp. (°C)	15.37	14.54	14.36	
DO (mg/l)	3.67	2.94	3.07	
Cond. (mS/cm)	0.853	0.896	0.896	
Turbidity (Ntu)	10.9	5.0	4.7	
ORP (mV)	143.0	147	170	
Est. Purge Vol. (gal.)	~260			
Purge Rate	2.0			
PID (ppm)	NA			


Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW30</u> Date: <u>10/13/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>J. Holzer, N. Oliveira</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes <input checked="" type="radio"/> No </div> </div>	

Well Data and Volume Calculations					Purging and Sampling Details		
Well Diameter (in):	6	inches	Volume of Standing Water (gal):	30.41 gallons	Purging Method:	Conventional - 2" Grundfos Pump	
Depth to Water (ft):	55.81	feet			Purge Times:	13:00	to 1:20 PM
Depth to Bottom (ft):	76.5	feet	Minimum Volume to be Purged (gal):	91.24 gallons	Sampling Time:	13:30/dup 13:35	
Height of Water Column (ft):	20.69	feet			Analytical Parameters:	VO+10, PP Metals	

	Before Purge	During Purge	Before Sampling	Notes:
Time	13:00	13:10	13:20	Purge water is clear, pump is set at 60 feet below top of casing.
Depth to Water (ft.)	55.81	NR	57.32	A duplicate is collected at 1335 MW30P for VO+10+ PP metals.
pH (SU)	7.23	7.34	7.39	
Temp. (°C)	14.63	13.43	13.84	
DO (mg/l)	7.69	6.19	5.82	
Cond. (mS/cm)	0.474	0.552	0.556	
Turbidity (Ntu)	0.0	0.0	0.0	
ORP (mV)	229	219	172	
Est. Purge Vol. (gal.)	~97			
Average Purge Rate (gal/min.)	5.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <h2 style="text-align: center; margin-top: 10px;">Groundwater Purging and Sampling Field Log</h2>	Well ID #: <u>MW34</u> Date: <u>10/20/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u>		
Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u>		
Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u>		
Technicians: <u>J. Holzer & B. Yagel</u>		

SITE OBSERVATIONS (circle)
1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>

Well Data and Volume Calculations				Purging and Sampling Details			
Well Diameter (in):	6	inches	Volume of Standing Water (gal):	49.04	gallons	Purging Method:	Conventional - 2" Grundfos Pump
Depth to Water (ft):	89.75	feet				Purge Times:	13:20 to 14:40
Depth to Bottom (ft):	123	feet	Minimum Volume to be Purged (gal):	147.12	gallons	Sampling Time:	15:00
Height of Water Column (ft):	33.36	feet				Analytical Parameters:	PP Metals

	Before Purge	During Purge	Before Sampling	Notes:
Time	13:20	14:00	14:40	Water is clear and odorless. Pump set at 100 feet below top
Depth to Water (ft.)	89.75	89.75	89.75	of casing.
pH (SU)	7.75	7.78	7.79	
Temp. (°C)	14.76	15.32	15.40	
DO (mg/l)	6.18	6.13	6.19	
Cond. (mS/cm)	0.806	0.815	0.840	
Turbidity (Ntu)	26.4	3.0	4.3	
ORP (mV)	237	241	242	
Est. Purge Vol. (gal.)	~150			
Average Purge Rate (gal/min.)	2.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.



Groundwater Purging and Sampling Field Log

Well ID #: **MW36**Page 1 of 1Date: **10/6/2004**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404Technicians: N. Oliveira, J. Holzer**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	68.00	gallons
Depth to Water (ft):	100.49	feet			
Depth to Bottom (ft):	146.73	feet	Minimum Volume to be Purged (gal):	204	gallons
Height of Water Column (ft):	46.24	feet			

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	11:26	to	12:50
Sampling Time:	13:00		
Analytical Parameters:	PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	11:26	12:10	12:50	Purge water is cloudy/turbid. The pump is set at 110 feet below top of casing.
Depth to Water (ft.)	106.49	105.50	105.15	
pH (SU)	8.06	8.23	7.63	
Temp. (°C)	13.09	13.84	15.79	
DO (mg/l)	10.46	11.38	10.76	
Cond. (mS/cm)	0.658	0.599	0.612	
Turbidity (Ntu)	143.0	67.3	111.0	
ORP (mV)	261	255	241	
Est. Purge Vol. (gal.)	~210			
Average Purge Rate (gal/min.)	2.5			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

<div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: MW39 Date: 10/22/2004	Page <u>1</u> of <u>3</u>
Site Location: Ingersoll Rand - Phillipsburg, New Jersey Street Address: 942 Memorial Parkway City: Phillipsburg State: NJ Client Name: Ingersoll Rand Project Number: 03710-162-404 Technicians: J. Holzer & B. Yagel	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes No </div>	

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	73.84 feet			
Depth to Bottom (ft):	134.62 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	10:45	to	12:50
Sampling Time:	13:00		
Analytical Parameters:	PP Metals		

	During Purge								
Time	10:45	10:50	10:55	11:00	11:10	11:15	11:20	11:25	11:30
Depth to Water (ft.)	74.54	74.71	74.86	74.45	74.31	75.08	75.10	75.12	75.12
pH (SU)	7.89	7.81	7.95	7.93	7.52	7.96	8.11	8.13	8.15
Temp. (°C)	11.55	11.69	11.85	11.98	11.93	12.14	12.08	12.02	11.86
DO (mg/l)	9.07	9.02	8.86	8.83	9.66	9.65	9.50	9.47	9.42
Cond. (S/cm)	0.847	0.766	0.761	0.742	0.612	0.590	0.572	0.567	0.567
Turbidity (Ntu)							808.0	609.0	528.0
ORP (mV)	145	126	110	100	194	175	117	95	86
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
PID (ppm)	NA								
Notes:	Water is turbid (light brown); horiba @ -5.0 and blinking. At 11:05 stopped purge, recalibrated horiba. The pump is set at 133 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: MW39

Page 2 of 3

Date: 10/22/2004

Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-162-404

Technicians: J. Holzer & B. Yagel

SITE OBSERVATIONS (circle)1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	73.48 feet			
Depth to Bottom (ft):	134.62 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	10:45	to	12:50
Sampling Time:	13:00		
Analytical Parameters:	PP Metals		

Time	During Purge								
	11:35	11:40	11:45	11:50	11:55	12:00	12:05	12:10	12:15
Depth to Water (ft.)	75.16	75.16	75.16	75.16	75.20	75.20	75.52	75.52	75.54
pH (SU)	8.16	8.16	8.17	8.17	8.17	8.18	8.17	8.18	8.19
Temp. (°C)	11.88	12.08	12.09	12.06	12.17	12.38	12.27	12.45	12.48
DO (mg/l)	9.33	8.71	8.76	8.78	8.75	8.72	8.70	8.73	8.75
Cond. (S/cm)	0.556	0.557	0.557	0.556	0.555	0.557	0.561	0.559	0.559
Turbidity (Ntu)	449.0	580.0	505.0	476.0	452.0	450.0	431.0	403.0	397.0
ORP (mV)	82	88	94	94	89	84	84	85	84
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
PID (ppm)	NA								
Notes:	Water is turbid (light brown); horiba @ -5.0 and blinking. At 11:05 stopped purge, recalibrated horiba. The pump is set at 133 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: MW39

Page 3 of 3

Date: 10/22/2004

Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-162-404

Technicians: J. Holzer & B. Yagel

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	73.48 feet			
Depth to Bottom (ft):	134.62 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			


Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	10:45	to	12:50
Sampling Time:	13:00		
Analytical Parameters:	PP Metals		

Time	During Purge								
	12:20	12:25	12:30	12:35	12:40	12:45			
Depth to Water (ft.)	75.56	75.56	75.54	75.75	76.00	76.19			
pH (SU)	8.17	8.19	8.18	8.18	8.18	8.18			
Temp. (°C)	12.49	12.39	12.68	12.95	12.99	12.96			
DO (mg/l)	8.98	9.09	9.37	9.35	9.36	8.90			
Cond. (S/cm)	0.597	0.604	0.588	0.516	0.516	0.518			
Turbidity (Ntu)	384.0	390.0	374.0	379.0	377.0	320.0			
ORP (mV)	85	76	68	67	69	68			
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.50	0.50	0.50	0.50	0.50	0.50			
PID (ppm)	NA								
Notes:	Water is turbid (light brown); horiba @ -5.0 and blinking. At 11:05 stopped purge, recalibrated horiba. The pump is set at 133 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW47</u> Date: 10/13/2004	Page <u>1</u> of <u>1</u>
Site Location: Ingersoll Rand - Phillipsburg, New Jersey Street Address: 942 Memorial Parkway City: Phillipsburg State: NJ Client Name: Ingersoll Rand Project Number: 03710-162-404 Technicians: N. Oliveira & J. Holzer	<div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 5px;"> SITE OBSERVATIONS (circle) </div> <div style="margin-bottom: 10px;"> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No </div> <div style="margin-bottom: 10px;"> 2) Was structural integrity good? <input checked="" type="radio"/> Yes No </div> <div style="margin-bottom: 10px;"> 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) </div> <div style="display: flex; justify-content: space-between;"> <input checked="" type="radio"/> Yes No </div>	

Well Data and Volume Calculations					Purging and Sampling Details			
Well Diameter (in):	6	inches	Volume of Standing Water (gal):	69.8 gallons	Purging Method:	Conventional - 2" Grundfos Pump		
Depth to Water (ft):	91.44	feet			Purge Times:	8:56	to	10:45
Depth to Bottom (ft):	138.9	feet	Minimum Volume to be Purged (gal):	210.0 gallons	Sampling Time:	10:50		
Height of Water Column (ft):	47.46	feet			Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	8:56	10:10	10:45	The original depth to bottom was 151 feet.
Depth to Water (ft.)	91.40	NR	100.20	Purge was slightly cloudy and then turned clear with no odors or sheens initially.
pH (SU)	6.54	6.92	7.05	The pump is set at 105 feet below top of casing.
Temp. (°C)	11.68	12.52	12.63	The pump has an odor and sheen with a greasy feeling from ground water.
DO (mg/l)	7.13	5.33	4.84	
Cond. (mS/cm)	0.874	0.866	0.857	
Turbidity (Ntu)	11.2	179.0	31.4	
ORP (mV)	346	249	291	
Est. Purge Vol. (gal.)	~220			
Average Purge Rate (gal/min.)	2.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.



Groundwater Purging and Sampling Field Log

Well ID #: **MW48**Page 1 of 1Date: **10/7/2004**Site Location: **Ingersoll Rand - Phillipsburg, New Jersey**Street Address: **942 Memorial Parkway** City: **Phillipsburg** State: **NJ**Client Name: **Ingersoll Rand** Project Number: **03710-162-404**Technicians: **N. Ishman, N. Oliveira****SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	63.21	gallons
Depth to Water (ft):	93.6	feet			
Depth to Bottom (ft):	136.1	feet	Minimum Volume to be Purged (gal):	189.60	gallons
Height of Water Column (ft):	43	feet			

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump	
Purge Times:	8:45	to 15:25
Sampling Time:	15:35	
Analytical Parameters:	VO+10	

Time	Before Purge	During Purge	Before Sampling	Notes: Water coming in slightly cloudy	
	8:45	13:05	15:25	Time	DTW
Depth to Water (ft.)	95.50	111.71	113.50	9:15	100.15
pH (SU)	6.15	8.01	7.73	9:30	103.35
Temp. (°C)	11.83	15.75	16.33	10:05	105.97
DO (mg/l)	9.23	12.95	9.15	10:30	106.25
Cond. (mS/cm)	0.670	0.650	0.614	10:55	106.58
Turbidity (Ntu)	248.0	95.6	13.6	11:30	107.50
ORP (mV)	339	237	159	12:10	111.71
Est. Purge Vol. (gal.)	~200			14:30	111.70
Average Purge Rate (gal/min.)	0.5			15:00	113.70
PID (ppm)	NA				

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.



Groundwater Purging and Sampling Field Log

Well ID #: MW49Page 1 of 1Date: 10/8/2004Site Location: Ingersoll Rand - Phillipsburg, New Jersey**SITE OBSERVATIONS (circle)**Street Address: 942 Memorial Parkway City: Phillipsburg State: NJ1) Was well locked upon arrival? ☒ Yes ☐ NoClient Name: Ingersoll Rand Project Number: 03710-162-4042) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Technicians: N. Oliveira, N. Ishman

Yes

☒ No**Well Data and Volume Calculations**


Well Diameter (in):	6	inches	Volume of Standing Water (gal):	76.66 gallons
Depth to Water (ft):	3.85	feet		
Depth to Bottom (ft):	56	feet	Minimum Volume to be Purged (gal):	229.98 gallons
Height of Water Column (ft):	52.15	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	14:38	to	15:38
Sampling Time:	15:40		
Analytical Parameters:	VO+10, PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	14:38	15:00	15:38	The purge water is slightly cloudy with no odor or sheen present.
Depth to Water (ft.)	4.20	4.24	4.06	The pump is set at 6 feet below top of casing.
pH (SU)	8.80	8.08	7.88	
Temp. (°C)	14.95	12.96	13.38	
DO (mg/l)	1.48	8.05	8.15	
Cond. (mS/cm)	0.366	0.569	0.569	
Turbidity (Ntu)	84.2	13.1	11.8	
ORP (mV)	139	98	193	
Est. Purge Vol. (gal.)	~235			
Average Purge Rate (gal/min.)	4.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW50</u> Date: <u>10/6/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>M. Hauser, N. Oliveira & N. Ishman</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes <input checked="" type="radio"/> No </div> </div>	

Well Data and Volume Calculations					Purging and Sampling Details		
Well Diameter (in):	6	inches	Volume of Standing Water (gal):	112.5 gallons	Purging Method:	Conventional - 2" Grundfos Pump	
Depth to Water (ft):	91.6	feet			Purge Times:	8:45	to 16:15
Depth to Bottom (ft):	168.1	feet	Minimum Volume to be Purged (gal):	337 gallons	Sampling Time:	16:20	
Height of Water Column (ft):	76.5	feet			Analytical Parameters:	VO+10; PP Metals	

	Before Purge	During Purge	Before Sampling	Notes:
Time	8:45	13:35	16:15	The purge water is cloudy.
Depth to Water (ft.)	85.00	91.00	90.00	The pump is set at 50 feet below top of casing.
pH (SU)	6.27	7.97	7.95	
Temp. (°C)	12.90	15.97	15.45	
DO (mg/l)	4.11	11.61	8.56	
Cond. (mS/cm)	1.050	0.832	0.844	
Turbidity (Ntu)	95.4	52.4	9.1	
ORP (mV)	276	258	208	
Est. Purge Vol. (gal.)	~340			
Average Purge Rate (gal/min.)	.75			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.



Groundwater Purging and Sampling Field Log

Well ID #: MW52Page 1 of 1Date: 10/8/2004Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404Technicians: G. Mattes & N. Ishman**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

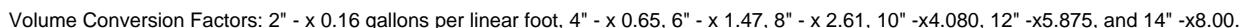
Well Diameter (in):	6	inches	Volume of Standing Water (gal):	44 gallons
Depth to Water (ft):	92.91	feet		
Depth to Bottom (ft):	122.7	feet	Minimum Volume to be Purged (gal):	131 gallons
Height of Water Column (ft):	29.79	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	9:55	to	10:45
Sampling Time:	10:55		
Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	9:55	10:15	10:45	The purge water is clear with no odor.
Depth to Water (ft.)	93.85	94.05	94.12	Pump kept hitting several shelves on the walls of the borehole, one shelf
pH (SU)	6.65	6.96	7.09	was right at water level and difficult to pass.
Temp. (°C)	16.54	16.40	16.07	The pump is set at 98 feet below top of casing.
DO (mg/l)	6.66	3.52	3.61	
Cond. (mS/cm)	0.598	0.538	0.537	
Turbidity (Ntu)	18.4	9.2	5.0	
ORP (mV)	253	231	247	
Est. Purge Vol. (gal.)	~160			
Average Purge Rate (gal/min.)	3.2			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.





Groundwater Purging and Sampling Field Log

Well ID #: **MW54**Page 1 of 1Date: **10/18/2004**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404Technicians: J. Holzer & B. Yagel**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in):	8	inches	Volume of Standing Water (gal):	86.73 gallons
Depth to Water (ft):	92.27	feet		
Depth to Bottom (ft):	125.5	feet	Minimum Volume to be Purged (gal):	260.19 gallons
Height of Water Column (ft):	33.23	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	9:45	to	14:10
Sampling Time:	14:40		
Analytical Parameters:	VO+10, PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	9:45	11:50	14:10	Purge rate 1.0 gal/min.
Depth to Water (ft.)	92.20	109.35	108.92	The purge water is clear and odorless.
pH (SU)	7.91	8.28	8.28	The pump is set at 110 feet below top of casing.
Temp. (°C)	13.55	16.25	17.55	
DO (mg/l)	1.77	1.96	2.40	
Cond. (mS/cm)	0.910	0.844	0.857	
Turbidity (Ntu)	29.1	1.8	0.0	
ORP (mV)	-107	-127	-50	
Est. Purge Vol. (gal.)	~260			
Average Purge Rate (gal/min.)	1.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.



Groundwater Purging and Sampling Field Log

Well ID #: **RW09**Page 1 of 2Date: **10/19/2004**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404Technicians: J. Holzer & B. Yagel**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

☒ Yes

No

Well Data and Volume Calculations

Well Diameter (in):	<u>8 inches</u>	Volume of Standing Water (gal):	<u>NA</u>	<u>gallons</u>
Depth to Water (ft):	<u>55.05 feet</u>			
Depth to Bottom (ft):	<u>199.09 feet</u>	Minimum Volume to be Purged (gal):	<u>NA</u>	<u>gallons</u>
Height of Water Column (ft):	<u>NA feet</u>			

Purging and Sampling Details

Purging Method:	<u>Low flow - 2" Grundfos Pump</u>		
Purge Times:	<u>10:20</u>	<u>to</u>	<u>11:00</u>
Sampling Time:	<u>11:40</u>		
Analytical Parameters:	<u>PP Metals</u>		

	During Purge								
Time	10:20	10:25	10:30	10:35	10:39	10:45	10:50	10:55	11:00
Depth to Water (ft.)	55.05								
pH (SU)	8.06	8.08	8.08	8.09	8.10	8.10	8.10	8.10	8.11
Temp. (°C)	17.07	17.36	17.30	17.45	17.47	17.52	17.52	17.58	17.62
DO (mg/l)	5.71	4.64	0.60	0.47	.45	0.56	0.60	0.66	0.29
Cond. (mS/cm)	.799	.783	.759	.753	.784	.788	.795	.798	.803
Turbidity (Ntu)	105.0	160.0	198.0	286.0	171.0	579.0	724.0	74.50	114.0
ORP (mV)	-176	-180	-181	-182	-182	-182	-182	-182	-182
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
PID (ppm)	NA								
Notes:	Depth to product 54.9 feet. The pump is set at 119 feet below top of casing. Water is light brown with petro-like odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: **RW09**Page 2 of 2Date: **10/19/2004**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404Technicians: J. Holzer & B. Yagel

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

☒ Yes

No

Well Data and Volume Calculations

Well Diameter (in):	<u>8 inches</u>	Volume of Standing Water (gal):	<u>NA</u>	<u>gallons</u>
Depth to Water (ft):	<u>55.05 feet</u>			
Depth to Bottom (ft):	<u>199.09 feet</u>	Minimum Volume to be Purged (gal):	<u>NA</u>	<u>gallons</u>
Height of Water Column (ft):	<u>NA feet</u>			


Purging and Sampling Details

Purging Method:	<u>Low flow - 2" Grundfos Pump</u>		
Purge Times:	<u>10:20</u>	<u>to</u>	<u>11:00</u>
Sampling Time:	<u>11:40</u>		
Analytical Parameters:	<u>PP Metals</u>		

	During Purge								
Time	11:05	11:10	11:20	11:25	11:30				
Depth to Water (ft.)					60.80				
pH (SU)	8.11	8.11	8.10	8.10	8.10				
Temp. (°C)	17.62	17.63	17.64	17.66	17.62				
DO (mg/l)	0.49	0.69	0.30	0.52	0.39				
Cond. (mS/cm)	.815	783	.826	.826	.830				
Turbidity (Ntu)	131.0								
ORP (mV)	-182	-182	-182	-182	-182				
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.75	0.75	0.75	0.75	0.75				
PID (ppm)	NA								
Notes:	Turbidity not working on the Horiba.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>RW10</u> Date: <u>10/5/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>J. Holzer & M. Hauser</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes No </div> </div>	

Well Data and Volume Calculations

Well Diameter (in):	8	inches	Volume of Standing Water (gal):	239.39 gallons
Depth to Water (ft):	81.85	feet		
Depth to Bottom (ft):	173.57	feet	Minimum Volume to be Purged (gal):	718.17 gallons
Height of Water Column (ft):	91.72	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	8:49	to	15:45
Sampling Time:	16:00		
Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	8:49	12:15	15:45	Purge rate 0.5 gal/min. Water is clear and odorless.
Depth to Water (ft.)	84.21	101.00	134.60	
pH (SU)	6.10	6.94	7.17	
Temp. (°C)	13.45	16.99	18.71	
DO (mg/l)	5.36	11.21	5.68	
Cond. (mS/cm)	1.77	1.77	1.80	
Turbidity (Ntu)	19.8	23.8	79.4	
ORP (mV)	288	225	227	
Est. Purge Vol. (gal.)	~720			
Average Purge Rate (gal/min.)	0.5			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

<div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>RW11</u> Date: <u>10/19/2004</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-162-404</u> Technicians: <u>J. Holzer & B. Yagel</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes No </div> </div>	

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	59.21 feet			
Depth to Bottom (ft):	172.3 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	8:45	to	9:14
Sampling Time:	9:20		
Analytical Parameters:	PP Metals		

	During Purge								
Time	8:45	8:50	8:55	9:00	9:05	9:10	9:15		
Depth to Water (ft.)	60.21	59.85	61.22	61.64	61.99	62.23	62.46		
pH (SU)	8.33	8.53	8.62	8.67	8.69	8.71	8.72		
Temp. (°C)	16.49	17.07	17.00	17.03	17.10	17.04	17.01		
DO (mg/l)	4.40	4.47	4.58	4.63	4.75	4.88	4.95		
Cond. (mS/cm)	1.26	1.24	1.23	1.22	1.21	1.21	1.20		
Turbidity (Ntu)	14.3	12.8	12.4	12.5	12.6	12.9	12.4		
ORP (mV)	237	229	222	215	208	204	202		
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PID (ppm)	NA								
Notes:	Tent set up over flush mount RW11. No runoff noted going into well. Purge water is clear and odorless. Pump was set at 120 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: **RW13**Page 1 of 1Date: **10/20/2004**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-162-404Technicians: J. Holzer & B. Yagel**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	115.94 gallons
Depth to Water (ft):	91.13	feet		
Depth to Bottom (ft):	173.3	feet	Minimum Volume to be Purged (gal):	347.82 gallons
Height of Water Column (ft):	78.87	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	8:40	to	11:40
Sampling Time:	11:45		
Analytical Parameters:	PP Metals		

	Before Purge	During Purge	Before Sampling	Notes:
Time	8:40	10:10	11:45	Purge water is clear and odorless. Pump is set at 105 feet below top of casing.
Depth to Water (ft.)	91.13	99.22	124.80	
pH (SU)	6.18	7.69	7.8	
Temp. (°C)	13.84	14.45	15.25	
DO (mg/l)	2.37	5.59	5.08	
Cond. (mS/cm)	1.09	.97	.95	
Turbidity (Ntu)	11.7	8.8	3.6	
ORP (mV)	275	259	0	
Est. Purge Vol. (gal.)	~360			
Average Purge Rate (gal/min.)	2.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.



Groundwater Purging and Sampling Field Log

Well ID #: TH36

Page 1 of 1

Date: 10/19/2004

Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway City: Phillipsburg State: NJ

Client Name: Ingersoll Rand Project Number: 03710-162-404

Technicians: J. Holzer & B. Yagel

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? ☒ Yes No2) Was structural integrity good? ☒ Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	57.49 feet	Minimum Volume to be Purged (gal):	NA	gallons
Depth to Bottom (ft):	117 feet			
Height of Water Column (ft):	NA feet			

Purging and Sampling Details


Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	14:05	to	14:35
Sampling Time:	14:40		
Analytical Parameters:	PP Metals		

	Before Purge			During Purge			Before Sampling		
Time	14:05	14:10	14:15	14:20	14:25	14:30	14:35		
Depth to Water (ft.)	57.42	58.35	59.30	59.33	60.38	61.15	61.71		
pH (SU)	8.07	8.07	8.09	8.09	8.09	8.09	8.09		
Temp. (°C)	18.22	18.55	18.73	18.74	18.83	18.94	19.00		
DO (mg/l)	7.73	7.57	7.16	6.89	6.55	6.32	6.22		
Cond. (S/cm)	0.846	0.852	0.863	0.864	0.864	0.864	0.864		
Turbidity (Ntu)	55.6	52.0	39.3	33.0	29.7	26.2	26.2		
ORP (mV)	91	69	49	45	43	41	41		
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PID (ppm)	NA								
Notes:	The purge water is clear and odorless. The pump is set at 110 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

GROUNDWATER SAMPLING EVENT
APRIL 2005

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-01</u> Date: <u>4/26/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>	
<div style="text-align: center;">NJDEP Laboratory Certification #: 12995</div> Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	99.00 gallons
Depth to Water (ft):	87.83 feet	Minimum Volume to be Purged (gal):	297.00 gallons
Depth to Bottom (ft):	125.6 feet		
Height of Water Column (ft):	37.7 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump		
Purge Times:	14:15	to	15:12
Sampling Time:	15:15		
Analytical Parameters:	PP Metals		

Time	Before Purge	During Purge							
	14:15	14:18	14:22	14:25	14:28	14:31	14:40	14:43	14:46
Depth to Water (ft.)	88.00	88.03	88.03	88.1	88.11	88.11	88.11	88.2	88.2
pH (SU)	7.71	7.64	7.86	7.99	8.07	8.18	7.94	7.82	7.85
Temp. (oC)	14.63	14.90	14.90	14.85	14.80	14.82	14.33	14.50	14.52
DO (mg/l)	16.22	12.54	14.02	12.51	12.94	11.94	11.56	10.58	11.95
Cond. (S/cm)	0.262	0.246	0.249	0.243	0.247	0.241	0.240	0.215	0.246
Turbidity (Ntu)	149	278	54	133	86.7	227	121	337	210
ORP (mV)	265	241	208	198	185	177	201	193	187
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	2.2 L/min	2.2 L/min	2.2 L/min	2.2 L/min	2.2 L/min	2.2 L/min	2.5 L/min	2.5 L/min	2.5 L/min
PID (ppm)									
Notes:	Pump is set at 92 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: **MW-01**Page 2 of 2Date: **4/26/05****Site Location:** Ingersoll Rand - Phillipsburg, New Jersey**Street Address:** 942 Memorial Parkway **City:** Phillipsburg **State:** NJ**Client Name:** Ingersoll Rand **Project Number:** 03710-167-0802**NJDEP Laboratory Certification #: 12995**Personnel: A. Mosuly and J. Holzer**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	99.00 gallons
Depth to Water (ft):	87.83 feet	Minimum Volume to be Purged (gal):	297.00 gallons
Depth to Bottom (ft):	125.6 feet		
Height of Water Column (ft):	37.7 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump		
Purge Times:	14:15	to	15:12
Sampling Time:	15:15		
Analytical Parameters	PP Metals		

Time	During Purge							Before Sampling
	14:50	14:53	14:56	14:59	15:03	15:06	15:09	15:12
Depth to Water (ft.)	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
pH (SU)	8.00	8.15	8.19	8.26	8.35	8.36	8.35	8.33
Temp. (oC)	14.48	14.41	14.43	14.49	14.44	14.57	14.56	14.57
DO (mg/l)	10.64	10.44	10.41	12.15	10.44	9.91	9.92	9.91
Cond. (S/cm)	0.242	0.240	0.239	0.234	0.254	0.253	0.254	0.256
Turbidity (Ntu)	128	368	569	* 999	23.8	19.9	61.8	77.3
ORP (mV)	174	164	159	158	146	138	136	131
Est. Purge Vol. (gal.)								33 Gal=Total volume purged
Purge Rate (L/min.)	2.5 L/min	2.5 L/min	2.5 L/min	2.5 L/min	2.5 L/min	2.5 L/min	2.5 L/min	2.5 L/min
PID (ppm)								
Notes:	Pump is set at 92 feet below top of casing. Purge water is clear and odorless. *Turbidity flashing at 999.							

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: MW-3

 Page 1 of 1
Date: 4/20/2005
Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City:** Phillipsburg **State:** NJ

Client Name: Ingersoll Rand **Project Number:** 03710-162-0802

Technicians: J. Holzer & S. Dolan

SITE OBSERVATIONS (circle)

 1) Was well locked upon arrival? ☒ Yes ☐ No

 2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	70.07	gallons
Depth to Water (ft):	69.68 feet			
Depth to Bottom (ft):	117.35 feet	Minimum Volume to be Purged (gal):	210	gallons
Height of Water Column (ft):	47.67 feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	10:30	to	10:58
Sampling Time:	11:00		
Analytical Parameters:	PP Metals		

	Before Purge	During Purge							Before Sampling
Time	10:35	10:38	10:41	10:45	10:48	10:52	10:55		10:58
Depth to Water (ft.)	68.90	68.95	68.94	68.94	68.95	68.95	68.95		68.95
pH (SU)	6.44	6.70	6.81	6.82	6.84	6.85	6.85		6.85
Temp. (°C)	14.60	14.79	14.73	14.69	14.74	14.73	14.76		14.77
DO (mg/l)	1.27	0.00	0.30	1.53	1.91	2.00	2.08		2.10
Cond. (S/cm)	0.973	0.975	0.925	0.893	0.885	0.883	0.880		0.879
Turbidity (Ntu)	35.2	16.0	9.8	8.7	10.3	15.6	20.7		19.7
ORP (mV)	159	130	121	130	136	140	144		147
Est. Purge Vol. (gal.)								16 Gal = Total volume purged	
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min		2 L/min
PID (ppm)									
Notes:	Pump is set at 115 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.





Groundwater Purging and Sampling Field Log

Well ID #: **MW11**Page 1 of 1Date: **4/29/2005**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-167-0802Technicians: J. Holzer and A. Mosuly**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

☒ Yes☐ No**Well Data and Volume Calculations**

Well Diameter (in):	8	inches	Volume of Standing Water (gal):	223.8 gallons
Depth to Water (ft):	76.6	feet		
Depth to Bottom (ft):	198.45	feet	Minimum Volume to be Purged (gal):	671.3 gallons
Height of Water Column (ft):	121.85	feet		

Purging and Sampling DetailsPurging Method: Conventional - 2" Grundfos PumpPurge Times: 10:07 to 12:00Sampling Time: 12:00Analytical Parameters: VO+10

	Before Purge	During Purge	Before Sampling	Notes: <u>Purge water was clear and odorless.</u>		
Time	10:10		12:00			
Depth to Water (ft.)	79.00		85.00	Time	DTW(feet)	Flow Rate(GPM)
pH (SU)	7.03		6.94	10:30	82.5	2
Temp. (°C)	17.58		18.54	10:35	84.2	2
DO (mg/l)	4.14		4.68	10:45	87.1	2
Cond. (mS/cm)	0.775		0.775	11:35	82.5	1.5
Turbidity (Ntu)	1.7		9.3	11:45	83.5	1.5
ORP (mV)	202		179	11:55	84.5	1.5
Est. Purge Vol. (gal.)	160 gal					
Average Purge Rate (gal/min.)	1.75 gal/min			Purge was stoppd at 10:50 to allow recharge, after recharging to 80 feet it was restarted at 11:20.		
PID (ppm)	NA			Sample was collected at 85 feet .		

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div> </div>	Well ID #: MW-12 Date: 4/27/05	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: flex-end;"> Yes <u>No</u> </div>	
NJDEP Laboratory Certification #: 12995		
Personnel: A. Mosuly and J. Holzer		

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	182.41 gallons
Depth to Water (ft):	88.11 feet	Minimum Volume to be Purged (gal):	547.23 gallons
Depth to Bottom (ft):	158 feet		
Height of Water Column (ft):	69.89 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	13:06 to 13:48
Sampling Time:	14:00
Analytical Parameters:	PP Metals

Time	Before Purge	During Purge							
	13:06	13:09	13:12	13:15	13:18	13:21	13:25	13:29	13:33
Depth to Water (ft.)	88.3	88.32	88.32	88.32	88.32	88.32	88.32	88.35	88.35
pH (SU)	7.20	7.07	6.95	6.96	7.00	7.07	7.14	7.19	7.21
Temp. (oC)	13.38	13.94	14.2	14.27	14.26	14.21	14.23	14.27	14.27
DO (mg/l)	8.89	7.73	7.00	6.15	5.47	3.10	2.00	1.75	1.59
Cond. (S/cm)	0.798	0.798	0.799	0.799	0.799	0.798	0.798	0.797	0.796
Turbidity (Ntu)	17.0	11.2	7.8	8.4	10.8	5.9	9.2	8.0	8.5
ORP (mV)	-40	-41	-40	-42	-45	-53	-56	-60	-63
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min
PID (ppm)									
Notes:	Pump is set at 127 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

<div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-12</u> Date: <u>4/27/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes No	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	182.41 gallons
Depth to Water (ft):	88.11 feet	Minimum Volume to be Purged (gal):	547.23 gallons
Depth to Bottom (ft):	158 feet		
Height of Water Column (ft):	69.89 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	13:06 to 13:48
Sampling Time:	14:00
Analytical Parameters	PP Metals

	During Purge								Before Sampling
Time	13:37	13:41	13:45						13:48
Depth to Water (ft.)	88.35	88.35	88.35						88.35
pH (SU)	7.21	7.22	7.22						7.22
Temp. (oC)	14.27	14.24	14.27						14.26
DO (mg/l)	1.16	1.20	1.16						1.18
Cond. (S/cm)	0.795	0.793	0.790						0.796
Turbidity (Ntu)	8.7	9.7	11.7						10.3
ORP (mV)	-64	-69	-64						-63
Est. Purge Vol. (gal.)									22 Gal=Total volume purged
Purge Rate (L/min.)	2 L/min	2 L/min							2 L/min
PID (ppm)									
Notes:	Pump is set at 127 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-15</u> Date: <u>4/26/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 5px;"> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <u>No</u> </div> </div>	
NJDEP Laboratory Certification #: 12995 Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations


Well Diameter (in):	6 inches		Volume of Standing Water (gal):	111.00 gallons
Depth to Water (ft):	84.42 feet		Minimum Volume to be Purged (gal):	333.00 gallons
Depth to Bottom (ft):	127 feet			
Height of Water Column (ft):	42.58 feet			

Purging and Sampling Details

Purging Method:	Conventional-2" Grundfos Pump		
Purge Times:	9:30	to	11:45
Sampling Time:	11:50		
Analytical Parameters:	VO + 10		

	Before Purge	During Purge							Before Sampling
Time	9:30	9:33	9:36	9:39	9:43	9:46	9:50		9:53
Depth to Water (ft.)	85.12	86.09	86.10	86.11	86.12	86.13	86.20		86.20
pH (SU)	6.81	6.75	6.75	6.91	6.96	6.98	7.00		7.00
Temp. (oC)	15.78	16.55	16.62	16.67	16.66	16.64	16.67		16.67
DO (mg/l)	4.69	3.00	2.81	2.71	2.40	2.15	2.14		2.13
Cond. (S/cm)	1.12	1.11	1.11	1.12	1.13	1.13	1.13		1.13
Turbidity (Ntu)	23.1	32.1	38.1	8.2	12.2	16.1	24.6		24.1
ORP (mV)	244	218	213	183	172	162	156		157
Est. Purge Vol. (gal.)								10 Gal=Total volume purged	
Purge Rate (L/min.)	1.9 L/min	1.9 L/min	1.9 L/min	1.9 L/min	1.9 L/min	1.9 L/min	1.9 L/min		1.9 L/min
PID (ppm)									
Notes:	Pump is set at 108 feet below top of casing. Purge water is clear and odorless. MW-15 was purged at low flow rate until 9:53 then purged at 2.8gal/min from 10:05 to 10:20. At which time flow rate was increased to 3 gal/min. Well was sampled for VO+10 via baler at 11:50. Total purge was approximately 330 gallons.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-16</u> Date: <u>4/27/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes No	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	8 inches		Volume of Standing Water (gal):	307.90 gallons
Depth to Water (ft):	79.33 feet		Minimum Volume to be Purged (gal):	923.70 gallons
Depth to Bottom (ft):	197.3 feet			
Height of Water Column (ft):	117.97 feet			


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	8:45 to 9:22
Sampling Time:	9:30
Analytical Parameters:	PP Metals

Time	Before Purge	During Purge							
	8:45	8:48	8:51	8:55	8:59	9:02	9:05	9:09	9:12
Depth to Water (ft.)	80.2	80.97	81.92	82.25	82.4	82.61	82.81	82.9	83.15
pH (SU)	6.95	7.10	7.18	7.25	7.27	7.28	7.29	7.30	7.31
Temp. (oC)	15.62	15.97	16.06	15.83	16.06	16.11	16.14	16.25	16.22
DO (mg/l)	4.35	3.6	3.24	2.81	2.71	2.67	2.7	2.61	2.60
Cond. (S/cm)	0.796	0.793	0.790	0.789	0.788	0.789	0.788	0.787	0.787
Turbidity (Ntu)	29.1	29.1	36.0	35.1	33.2	32.8	32.1	32.9	32.7
ORP (mV)	207	181	164	159	146	142	138	132	129
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	2.2 L/min	2.2 L/min	2.2 L/min	1 L/min	1 L/min	1 L/min	1 L/min	1 L/min	1 L/min
PID (ppm)									
Notes:	Pump is set at 155 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-16</u> Date: <u>4/27/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes <u>No</u>	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	307.90 gallons
Depth to Water (ft):	79.33 feet	Minimum Volume to be Purged (gal):	923.70 gallons
Depth to Bottom (ft):	197.3 feet		
Height of Water Column (ft):	117.97 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	8:45 to 9:22
Sampling Time:	9:30
Analytical Parameters	PP Metals

	During Purge								Before Sampling
Time	9:15	9:19							9:22
Depth to Water (ft.)	83.25	83.35							83.47
pH (SU)	7.32	7.32							7.32
Temp. (oC)	16.21	16.21							16.22
DO (mg/l)	2.61	2.62							2.61
Cond. (S/cm)	0.787	0.786							0.786
Turbidity (Ntu)	30.7	30.2							30.1
ORP (mV)	126	123							123
Est. Purge Vol. (gal.)								13 Gal=Total volume purged	
Purge Rate (L/min.)	1 L/min	1 L/min							1 L/min
PID (ppm)									
Notes:	Pump is set at 155 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: MW-26

 Page 1 of 1
Date: 4/22/2005

Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City:** Phillipsburg **State:** NJ

Client Name: Ingersoll Rand **Project Number:** 03710-162-0802

Technicians: J. Holzer & A. Mosuly

SITE OBSERVATIONS (circle)

 1) Was well locked upon arrival? ☒ Yes ☐ No

 2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

☒ Yes

☐ No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	70.07	gallons
Depth to Water (ft):	61.9 feet			
Depth to Bottom (ft):	156 feet	Minimum Volume to be Purged (gal):	210	gallons
Height of Water Column (ft):	94.1 feet			


Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	13:55	to	14:11
Sampling Time:	14:20		
Analytical Parameters:	PP Metals		

	Before Purge	During Purge							Before Sampling
Time	13:55	13:58	14:02	14:05	14:08				14:11
Depth to Water (ft.)	63.64	63.80	63.86	63.94	64.00				64.08
pH (SU)	6.95	6.95	6.89	6.95	6.97				6.97
Temp. (°C)	14.27	14.24	14.26	14.23	14.24				14.23
DO (mg/l)	0.00	0.00	0.00	0.00	0.00				0.00
Cond. (S/cm)	0.687	0.687	0.688	0.689	0.688				0.688
Turbidity (Ntu)	41.1	52.5	52.7	39.0	27.9				29.4
ORP (mV)	-87	-94	-87	-96	-99				-99
Est. Purge Vol. (gal.)								5 Gal = Total volume purged	
Purge Rate (L/min.)	1.2 L/min	1.2 L/min	1.2 L/min	1.2 L/min	1.2 L/min				1.2 L/min
PID (ppm)	NA								
Notes:	Pump is set at 153 feet below top of casing. Purge water is brown with a petroleum odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-27</u> Date: <u>4/22/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes No	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	10.18 gallons
Depth to Water (ft):	74.6 feet	Minimum Volume to be Purged (gal):	30.55 gallons
Depth to Bottom (ft):	138.25 feet		
Height of Water Column (ft):	63.65 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	10:00 to 10:33
Sampling Time:	10:40
Analytical Parameters:	PP Metals

	Before Purge	During Purge							
Time	10:00	10:03	10:07	10:11	10:14	10:18	10:21	10:24	10:27
Depth to Water (ft.)	74.69	74.69	74.69	74.70	74.70	74.70	74.70	74.70	74.70
pH (SU)	7.40	7.36	7.36	7.37	7.36	7.36	7.37	7.38	7.39
Temp. (oC)	13.89	14.45	14.51	14.48	14.49	14.54	14.54	14.58	14.6
DO (mg/l)	2.61	1.20	0.73	0.59	0.23	0.03	0.00	0.00	0.00
Cond. (S/cm)	0.756	0.749	0.741	0.718	0.708	0.705	0.699	0.694	0.697
Turbidity (Ntu)	175	115	87.2	55.1	26.3	24.5	29.5	39.5	5.4
ORP (mV)	206	144	122	108	100	98	95	92	89
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.8 L/min	1.8 L/min	1.8 L/min	1.8 L/min	1.8 L/min	1.8 L/min	1.8 L/min	1.8 L/min	1.8 L/min
PID (ppm)									
Notes:	Pump is set at 137 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-27</u> Date: <u>4/22/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 10px;"> 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes No </div> </div>	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations


Well Diameter	6 inches	Volume of Standing Water (gal):	10.18 gallons
Depth to Water	74.6 feet	Minimum Volume to be Purged (gal):	30.55 gallons
Depth to Bottom (ft):	138.25 feet		
Height of Water	63.65 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	10:00 to 10:33
Sampling Time:	10:40
Analytical Parameters:	PP Metals

Time	During Purge								Before Sampling
	10:30								10:33
Depth to Water (ft.)	74.70								74.70
pH (SU)	7.39								7.39
Temp. (oC)	14.58								14.6
DO (mg/l)	0.00								0.00
Cond. (S/cm)	0.696								0.697
Turbidity (Ntu)	8.4								9.8
ORP (mV)	88								88
Est. Purge Vol. (gal.)								16 Gal=Total volume purged	
Purge Rate (L/min.)	1.8 L/min								1.8 L/min
PID (ppm)									
Notes:	Pump is set at 137 feet below top of casing. Purge water is clear and odorless.								


Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-30</u> Date: <u>4/22/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes <input type="radio"/> No 2) Was structural integrity good? <input checked="" type="radio"/> Yes <input type="radio"/> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </div>	
NJDEP Laboratory Certification #: 12995 Personnel: <u>J. Holzer and A. Mosuly</u>		

Well Data and Volume Calculations	Purging and Sampling Details
Well Diameter (in): <u>6 inches</u> Depth to Water (ft): <u>53.12 feet</u> Depth to Bottom (ft): <u>77 feet</u> Height of Water Column (ft): <u>23.12 feet</u>	Purging Method: <u>Low Flow-2" Grunfos Pump</u> Purge Times: <u>11:24</u> to <u>12:06</u> Sampling Time: <u>12:15</u> Analytical Parameters: <u>PP Metals</u>
Volume of Standing Water (gal): <u>35.10 gallons</u> Minimum Volume to be Purged (gal): <u>105 gallons</u>	

Time	Before Purge	During Purge							
	11:24	11:28	11:31	11:35	11:38	11:41	11:45	11:48	11:53
Depth to Water (ft.)	53.17	53.17	53.18	53.18	53.20	53.20	53.20	53.20	53.20
pH (SU)	7.40	7.32	7.34	7.37	7.37	7.37	7.36	7.36	6.99
Temp. (oC)	13.28	14.19	14.36	14.51	14.55	14.52	14.52	14.52	14.45
DO (mg/l)	5.39	3.00	2.72	2.44	2.28	2.17	2.05	1.99	1.99
Cond. (S/cm)	0.594	0.594	0.596	0.601	0.60	0.601	0.600	0.600	0.609
Turbidity (Ntu)	77.1	65.6	65.7	64.2	65.1	67.1	70.7	73.2	8.1
ORP (mV)	192	87	80	73	72	72	74	75	91
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.1 L/min	1.1 L/min	1.1 L/min	1.1 L/min	1.1 L/min	1.1 L/min	1.1 L/min	1.1 L/min	1.1 L/min
PID (ppm)									
Notes:	Pump is set at 75 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-30</u> Date: 4/22/05	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 5px;"> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <u>No</u> </div> </div>	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations


Well Diameter (in):	6 inches	Volume of Standing Water (gal):	35.10 gallons
Depth to Water (ft):	53.12 feet		
Depth to Bottom (ft):	77 feet	Minimum Volume to be Purged (gal):	105 gallons
Height of Water Column (ft):	23.12 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grunfos Pump
Purge Times:	11:24 to 12:06
Sampling Time:	12:15
Analytical Parameters:	PP Metals

	During Purge								Before Sampling
Time	11:56	12:00	12:03						12:06
Depth to Water (ft.)	53.20	53.20	53.20						53.20
pH (SU)	7.40	7.37	7.36						7.35
Temp. (oC)	14.61	14.65	14.61						14.61
DO (mg/l)	1.97	1.94	1.84						1.83
Cond. (S/cm)	0.603	0.601	0.602						0.601
Turbidity (Ntu)	7.1	10.3	8.8						9.1
ORP (mV)	69	83	86						89
Est. Purge Vol. (gal.)								11 Gal=Total volume purged	
Purge Rate (L/min.)	1.1 L/min	1.1 L/min	1.1 L/min	1.1 L/min					1.1 L/min
PID (ppm)									
Notes:	Pump is set at 75 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-34</u> Date: <u>4/21/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes <u>No</u>	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	6.97 gallons
Depth to Water (ft):	82.94 feet	Minimum Volume to be Purged (gal):	20.91 gallons
Depth to Bottom (ft):	126.5 feet		
Height of Water Column (ft):	43.56 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump		
Purge Times:	9:25	to	10:07
Sampling Time:	10:15		
Analytical Parameters:	PP Metals		

Time	Before Purge	During Purge							
	9:28	9:33	9:38	9:43	9:47	9:51	9:55	9:59	10:03
Depth to Water (ft.)	83.03	83.07	83.07	83.07	83.07	83.08	83.08	83.08	83.08
pH (SU)	6.95	6.80	6.87	7.06	7.13	7.14	7.14	7.14	7.14
Temp. (oC)	16.57	16.73	16.78	16.88	16.87	16.91	16.87	16.94	16.94
DO (mg/l)	7.07	5.98	5.65	5.42	5.43	5.24	5.16	5.14	5.11
Cond. (S/cm)	0.745	0.739	0.728	0.723	0.72	0.696	0.688	0.687	0.690
Turbidity (Ntu)	38.5	39.7	46.0	53.2	64.1	82.3	97.0	111.0	127.0
ORP (mV)	94	95	90	80	78	81	83	85	88
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.3 L/min	1.3 L/min	1.3 L/min	1.3 L/min	1.3 L/min	1.3 L/min	1.3 L/min	1.3 L/min	1.3 L/min
PID (ppm)									
Notes:	Pump is set at 113 feet below top of casing. Purge water is clear and odorless. Turbidity was unstable.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-34</u> Date: <u>4/21/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <u>No</u> </div>	
NJDEP Laboratory Certification #: 12995 Personnel: A. Mosuly and J. Holzer		

Well Data and Volume Calculations


Well Diameter (in):	6 inches	Volume of Standing Water (gal):	6.97 gallons
Depth to Water (ft):	82.94 feet	Minimum Volume to be Purged (gal):	20.91 gallons
Depth to Bottom (ft):	127.66 feet		
Height of Water Column (ft):	43.56 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	9:25 to 10:07
Sampling Time:	10:15
Analytical Parameters	PP Metals

	Before Sampling	During Purge							
Time	10:07								
Depth to Water (ft.)	83.08								
pH (SU)	7.14								
Temp. (oC)	16.93								
DO (mg/l)	5.11								
Cond. (S/cm)	0.687								
Turbidity (Ntu)	156								
ORP (mV)	89								
Est. Purge Vol. (gal.)								14.5 Gal =Total volume purged	
Purge Rate (L/min.)	1.3 L/min								
PID (ppm)									
Notes:	Pump is set at 113 feet below top of casing. Purge water is clear and odorless. Turbidity was unstable.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-35</u> Date: <u>4/20/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? Yes <input checked="" type="radio"/> No <input type="radio"/> 2) Was structural integrity good? Yes <input checked="" type="radio"/> No <input type="radio"/> 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes <input type="radio"/> No <input checked="" type="radio"/>	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and S. Dolan		

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	9.74 gallons
Depth to Water (ft):	82.32 feet	Minimum Volume to be Purged (gal):	29.22 gallons
Depth to Bottom (ft):	143.2 feet		
Height of Water Column (ft):	60.88 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump		
Purge Times:	14:30	to	15:15
Sampling Time:	15:20		
Analytical Parameters:	PP Metals		

Time	Before Purge	During Purge							
	14:32	14:35	14:38	14:41	14:45	14:48	14:51	14:54	14:58
Depth to Water (ft.)	82.30	82.31	82.31	82.32	82.32	82.32	82.32	82.32	82.32
pH (SU)	6.48	6.84	6.87	6.89	6.91	6.92	6.93	6.94	6.95
Temp. (oC)	15.22	15.45	15.5	15.58	15.52	15.52	15.57	15.51	15.52
DO (mg/l)	7.73	7.10	6.53	6.29	6.00	5.85	5.60	5.48	5.37
Cond. (S/cm)	0.864	0.875	0.863	0.860	0.855	0.854	0.851	0.851	0.849
Turbidity (Ntu)	11.6	7.1	5.9	7.6	11.6	15.5	20.8	25.4	33.3
ORP (mV)	155	137	130	127	126	126	125	124	124
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min
PID (ppm)									
Notes:	Pump is set at 122 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: **MW-35**Page 2 of 2Date: **4/20/05**Site Location: Ingersoll Rand - Phillipsburg, New JerseyStreet Address: 942 Memorial Parkway City: Phillipsburg State: NJClient Name: Ingersoll Rand Project Number: 03710-167-0802NJDEP Laboratory Certification #: **12995**Personnel: J. Holzer and S. Dolan**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? Yes ☐ No ☒2) Was structural integrity good? Yes ☐ No ☒

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes ☐ No ☒**Well Data and Volume Calculations**

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	9.74 gallons
Depth to Water (ft):	82.32 feet	Minimum Volume to be Purged (gal):	29.22 gallons
Depth to Bottom (ft):	143.2 feet		
Height of Water Column (ft):	60.88 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump		
Purge Times:	14:30	to	15:15
Sampling Time:	15:20		
Analytical Parameters:	PP Metals		

Time	During Purge								Before Sampling
	15:01	15:05	15:08	15:11					15:15
Depth to Water (ft.)	82.33	82.33	82.33	82.33					82.33
pH (SU)	6.96	6.96	6.96	6.96					6.96
Temp. (oC)	15.3	15.34	15.34	15.34					15.36
DO (mg/l)	5.05	4.94	4.91	4.89					4.83
Cond. (S/cm)	0.854	0.853	0.852	0.851					0.850
Turbidity (Ntu)	37.2	35.1	38.3	32.1					27.3
ORP (mV)	122	121	121	125					123
Est. Purge Vol. (gal.)								16 Gal=Total volume purged	
Purge Rate (L/min.)	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min					1.35 L/min
PID (ppm)									
Notes:	Pump is set at 122 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-35</u> Date: <u>4/20/05</u>	Page <u>1</u> of <u>2</u>
Site Location: Ingersoll Rand - Phillipsburg, New Jersey Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center; border-bottom: 1px solid black; margin-bottom: 5px;">SITE OBSERVATIONS (circle)</div> <div style="margin-bottom: 5px;">1) Was well locked upon arrival? <u>Yes</u> No</div> <div style="margin-bottom: 5px;">2) Was structural integrity good? <u>Yes</u> No</div> <div style="margin-bottom: 5px;">3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.)</div> <div style="text-align: right;"> Yes <u>No</u> </div>	
<div style="text-align: center; border: 1px solid black; padding: 5px; margin-bottom: 5px;">NJDEP Laboratory Certification #: 12995</div> Personnel: J. Holzer and S. Dolan		

Well Data and Volume Calculations	Purging and Sampling Details
Well Diameter (in): <u>6 inches</u> Depth to Water (ft): <u>82.32 feet</u> Depth to Bottom (ft): <u>143.2 feet</u> Height of Water Column (ft): <u>60.88 feet</u>	Purging Method: <u>Low Flow</u> Purge Times: <u>14:30</u> to <u>15:15</u> Sampling Time: <u>15:20</u> Analytical Parameters: <u>PP Metals</u>
Volume of Standing Water (gal): <u>9.74 gallons</u> Minimum Volume to be Purged (gal): <u>29.22 gallons</u>	

	During Purge								Before Sample
Time	15:01	15:05	15:08	15:11					15:15
Depth to Water (ft.)	82.33	82.33	82.33	82.33					82.33
pH (SU)	6.96	6.96	6.96	6.96					6.96
Temp. (oC)	15.3	15.34	15.34	15.34					15.34
DO (mg/l)	5.05	4.94	4.91	4.89					4.83
Cond. (S/cm)	0.854	0.853	0.852	0.851					0.850
Turbidity (Ntu)	37.2	35.1	38.3	32.1					27.3
ORP (mV)	122	121	121	125					123
Est. Purge Vol. (gal.)									12 Gal=Total volume purged
Purge Rate (L/min.)	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min	1.35 L/min
PID (ppm)									
Notes:	Pump is set at 122 feet. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: MW-36Page 1 of 2Date: 4/25/05**Site Location:** Ingersoll Rand - Phillipsburg, New Jersey**Street Address:** 942 Memorial Parkway **City:** Phillipsburg **State:** NJ**Client Name:** Ingersoll Rand **Project Number:** 03710-167-0802**NJDEP Laboratory Certification #: 12995**Personnel: J. Holzer and A. Mosuly**SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in): 6 inches Volume of Standing Water (gal): 76.19 gallons

Depth to Water (ft): 92.97 feet

Depth to Bottom (ft): 144.8 feet Minimum Volume to be Purged (gal): 228.57 gallons

Height of Water Column (ft): 51.83 feet

Purging and Sampling Details

Purging Method: Low Flow-2" Grundfos Pump

Purge Times: 9:35 to 10:18

Sampling Time: 10:25

Analytical Parameters: PP Metals

Time	Before Purge	During Purge							
	9:35	9:39	9:43	9:48	9:52	9:55	9:58	10:02	10:05
Depth to Water (ft.)	93.46	93.46	93.52	93.52	93.55	93.55	93.55	93.56	93.56
pH (SU)	7.10	7.18	7.27	7.21	7.21	7.20	7.19	7.19	7.20
Temp. (oC)	12.22	12.68	12.69	13.44	13.61	13.63	13.61	13.6	13.62
DO (mg/l)	9.27	9.46	9.18	9.53	9.65	9.64	8.82	8.73	8.56
Cond. (S/cm)	0.630	0.630	0.611	0.631	0.631	0.630	0.629	0.629	0.628
Turbidity (Ntu)	11.4	9.7	63.1	12.4	13.1	11.3	17.4	26.7	24.2
ORP (mV)	129	143	148	148	147	146	144	142	141
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.5 L/min	1.5 L/min	1.5 L/min	1.5 L/min	1.5 L/min	1.5 L/min	1.5 L/min	1.5 L/min	1.5 L/min
PID (ppm)									
Notes:	Pump is set at 125 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

<div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-36</u> Date: <u>4/25/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes <input type="radio"/> No 2) Was structural integrity good? <input checked="" type="radio"/> Yes <input type="radio"/> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="display: flex; justify-content: space-between;"> Yes <input checked="" type="radio"/> No </div>	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations


Well Diameter (in):	6 inches	Volume of Standing Water (gal):	
Depth to Water (ft):	92.97 feet		76.19 gallons
Depth to Bottom (ft):	144.8 feet	Minimum Volume to be Purged (gal):	
Height of Water Column (ft):	51.83 feet		228.57 gallons

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	9:35 to 10:18
Sampling Time:	10:25
Analytical Parameters:	PP Metals

Time	During Purge								Before Sampling
	10:08	10:11	10:15						10:18
Depth to Water (ft.)	93.56	93.56	93.56						93.56
pH (SU)	7.20	7.18	7.18						7.18
Temp. (oC)	13.8	13.67	13.69						13.68
DO (mg/l)	9.56	9.62	9.61						9.63
Cond. (S/cm)	0.631	0.631	0.631						0.631
Turbidity (Ntu)	28.2	32.1	30.5						38.1
ORP (mV)	137	140	139						141
Est. Purge Vol. (gal.)								17 Gal=Total volume purged	
Purge Rate (L/min.)	1.5 L/min	1.5 L/min	1.5 L/min						1.5 L/min
PID (ppm)									
Notes:	Pump is set at 125 feet below top of casing. Purge water is clear and odorless.								


Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-39</u> Date: <u>4/21/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;">Yes <u>No</u></div>	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations	Purging and Sampling Details
Well Diameter (in): <u>6 inches</u> Depth to Water (ft): <u>63.7 feet</u> Depth to Bottom (ft): <u>134.2 feet</u> Height of Water Column (ft): <u>70.5 feet</u>	Purging Method: <u>Low Flow-2" Grundfos Pump</u> Purge Times: <u>13:48</u> to <u>14:19</u> Sampling Time: <u>14:25</u> Analytical Parameters: <u>PP Metals</u>
Volume of Standing Water (gal): <u>11.28 gallons</u> Minimum Volume to be Purged (gal): <u>33.84 gallons</u>	

	Before Purge	During Purge							Before Sampling
Time	13:50	13:54	13:58	14:02	14:05	14:10	14:13	14:16	14:19
Depth to Water (ft.)	65.95	66.06	66.80	67.00	67.14	67.26	67.35	67.43	67.48
pH (SU)	6.93	6.90	7.02	7.42	7.44	7.41	7.40	7.40	7.40
Temp. (oC)	12.53	12.73	12.78	12.91	13.02	12.86	12.89	12.9	12.99
DO (mg/l)	17.29	12.82	11.28	10.28	9.71	8.93	8.41	8.48	8.46
Cond. (S/cm)	0.487	0.486	0.484	0.482	0.481	0.480	0.479	0.478	0.476
Turbidity (Ntu)	207	158	114	79.1	76.2	70.2	79.3	83.2	75.2
ORP (mV)	134	127	116	96	90	92	91	91	91
Est. Purge Vol. (gal.)								15 Gal=Total volume purged	
Purge Rate (L/min.)	2.80 L/min	2.80 L/min	2.80 L/min	2.80 L/min	2.80 L/min	1.5 L/min	1.5 L/min	1.5 L/min	1.5 L/min
PID (ppm)									
Notes:	Pump is set at 133 feet below top of casing. Purge water is clear and odorless. Flow rate lowered to 1.5 L/min at 14:10.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-49</u> Date: <u>4/28/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes <u>No</u>	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	8.45 gallons
Depth to Water (ft):	3.35 feet	Minimum Volume to be Purged (gal):	25.34 gallons
Depth to Bottom (ft):	56.2 feet		
Height of Water Column (ft):	52.8 feet		

Purging and Sampling Details

Purging Method:	Conventional
Purge Times:	14:25 to 14:51
Sampling Time:	15:00
Analytical Parameters:	PP Metals

Time	Before Purge	During Purge							Before Sampling
	14:25	14:29	14:33	14:36	14:39	14:42	14:45	14:48	14:51
Depth to Water (ft.)	3.4	3.4	3.4	3.6	3.7	3.7	3.8	3.9	3.9
pH (SU)	7.41	7.20	7.17	7.18	7.22	7.39	7.53	7.56	7.59
Temp. (oC)	11.83	11.87	11.87	11.87	11.86	11.81	11.81	11.81	11.82
DO (mg/l)	7.21	6.78	6.60	6.34	6.21	6.07	6.14	6.17	6.18
Cond. (S/cm)	0.570	0.569	0.569	0.569	0.568	0.568	0.568	0.568	0.568
Turbidity (Ntu)	0	0	0	0	0	0	0	0	0
ORP (mV)	73	86	94	97	98	91	85	83	82
Est. Purge Vol. (gal.)								20 Gal=Total volume purged	
Purge Rate (L/min.)	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min
PID (ppm)									
Notes:	Pump is set at 54 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: **MW-50**Page 1 of 2Date: **4/25/05****Site Location:** Ingersoll Rand - Phillipsburg, New Jersey**Street Address:** 942 Memorial Parkway **City:** Phillipsburg **State:** NJ**Client Name:** Ingersoll Rand **Project Number:** 03710-167-0802**NJDEP Laboratory Certification #: 12995**

Personnel: A. Mosuly and J. Holzer

SITE OBSERVATIONS (circle)1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes

☒ No**Well Data and Volume Calculations**

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	109.22 gallons
Depth to Water (ft):	79.5 feet	Minimum Volume to be Purged (gal):	327.66 gallons
Depth to Bottom (ft):	153.8 feet		
Height of Water Column (ft):	74.3 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	15:21 to 16:11
Sampling Time:	16:15
Analytical Parameters:	PP Metals

Time	Before Purge	During Purge							
	15:21	15:24	15:27	15:30	15:33	15:37	15:40	15:44	15:49
Depth to Water (ft.)	81	81.3	82.45	82.35	82.35	82.51	82.55	82.64	82.71
pH (SU)	6.88	6.88	6.88	6.88	6.89	6.88	6.88	6.87	6.87
Temp. (oC)	14.74	15.06	15.09	14.92	15.73	15.47	15.47	15.46	15.45
DO (mg/l)	8.87	8.07	7.89	5.93	4.79	4.32	4.20	4.13	4.01
Cond. (S/cm)	0.926	0.929	0.930	0.931	0.931	0.931	0.931	0.930	0.929
Turbidity (Ntu)	88.4	85.1	83.2	139	140	138	144	145	151
ORP (mV)	139	124	121	119	100	101	100	99	101
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min
PID (ppm)									
Notes:	Pump is set at 152 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-50</u> Date: <u>4/25/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: center;"> Yes <u>No</u> </div>	
NJDEP Laboratory Certification #: 12995 Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations


Well Diameter (in):	6 inches	Volume of Standing Water (gal):	109.22 gallons
Depth to Water (ft):	79.5 feet	Minimum Volume to be Purged (gal):	327.66 gallons
Depth to Bottom (ft):	153.8 feet		
Height of Water Column (ft):	74.3 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	15:21 to 16:11
Sampling Time:	16:15
Analysis Parameters	PP Metals

	During Purge								Before Sampling
Time	15:54	15:59	16:04	16:08					16:11
Depth to Water (ft.)	82.74	82.99	83.01	83.01					83.01
pH (SU)	6.86	6.86	6.85	6.85					6.85
Temp. (oC)	15.53	15.50	15.56	15.53					15.55
DO (mg/l)	4.65	4.65	4.53	4.57					4.56
Cond. (S/cm)	0.931	0.931	0.930	0.929					0.927
Turbidity (Ntu)	126	135	137	132					139
ORP (mV)	101	101	100	99					100
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	2 L/min					2 L/min
PID (ppm)									
Notes:	Pump is set at 152 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-51A</u> Date: <u>4/21/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? Yes <input checked="" type="radio"/> No 2) Was structural integrity good? Yes <input checked="" type="radio"/> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;">Yes No <input checked="" type="radio"/></div>	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	9.69 gallons
Depth to Water (ft):	76.55 feet	Minimum Volume to be Purged (gal):	29.06 gallons
Depth to Bottom (ft):	137.1 feet		
Height of Water Column (ft):	60.55 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grunfos Pump		
Purge Times:	11:11	to	11:49
Sampling Time:	11:55		
Analytical Parameters:	PP Metals		

Time	Before Purge	During Purge							
	11:11	11:16	11:20	11:23	11:27	11:30	11:34	11:37	11:40
Depth to Water (ft.)	76.69	76.69	76.70	76.70	76.70	76.70	76.70	76.70	76.70
pH (SU)	7.16	6.96	7.25	7.27	7.30	7.32	7.31	7.31	7.31
Temp. (oC)	14.19	14.71	14.80	14.82	14.83	14.80	14.79	14.80	14.82
DO (mg/l)	9.09	5.92	5.26	4.93	4.61	4.57	4.63	4.46	4.28
Cond. (S/cm)	0.697	0.701	0.696	0.692	0.688	0.69	0.686	0.686	0.685
Turbidity (Ntu)	320	211	168	144	118	76.4	51.5	39.2	28.6
ORP (mV)	53	69	51	46	41	37	38	37	41
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min	2.8 L/min
PID (ppm)									
Notes:	Pump is set at 135 feet below top of casing. Purge water is brown and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-51A</u> Date: <u>4/21/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;">Yes <u>No</u></div>	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations


Well Diameter (in):	6 inches	Volume of Standing Water (gal):	9.69 gallons
Depth to Water (ft):	76.55 feet	Minimum Volume to be Purged (gal):	29.06 gallons
Depth to Bottom (ft):	137.1 feet		
Height of Water Column (ft):	60.55 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grunfos Pump
Purge Times:	11:11 to 11:49
Sampling Time:	11:55
Analytical Parameters	PP Metals

	During Purge								Before Sampling
Time	11:43	11:46							11:49
Depth to Water (ft.)	76.70	76.70							76.7
pH (SU)	7.31	7.32							7.31
Temp. (oC)	14.81	14.82							14.83
DO (mg/l)	4.15	4.16							4.13
Cond. (S/cm)	0.685	0.683							0.684
Turbidity (Ntu)	24.7	24.2							26.2
ORP (mV)	47	50							50
Est. Purge Vol. (gal.)								30 Gal=Total volume purged	
Purge Rate (L/min.)	2.8 L/min	2.8 L/min							2.8 L/min
PID (ppm)									
Notes:	Pump is set at 135 feet below top of casing. Purge water is brown and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-52</u> Date: <u>4/22/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;">Yes <u>No</u></div>	
<div style="text-align: center;">NJDEP Laboratory Certification #: 12995</div> Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations


Well Diameter (in):	6 inches	Volume of Standing Water (gal):	13.64 gallons
Depth to Water (ft):	86.72 feet	Minimum Volume to be Purged (gal):	40.93 gallons
Depth to Bottom (ft):	172 feet		
Height of Water Column (ft):	85.28 feet		

Purging and Sampling Details

Purging Method:	Low Flow- 2" Grundfos Pump
Purge Times:	8:25 to 8:51
Sampling Time:	9:00
Analytical Parameters:	PP Metals

	Before Purge	During Purge							Before Sampling
Time	8:25	8:29	8:33	8:36	8:39	8:42	8:45	8:48	8:51
Depth to Water (ft.)	86.85	86.86	86.86	86.86	86.87	86.87	86.88	86.88	86.88
pH (SU)	6.83	7.08	7.10	7.10	7.10	7.09	7.10	7.10	7.10
Temp. (oC)	15.81	16.6	16.75	16.76	16.79	16.81	16.83	16.85	16.83
DO (mg/l)	2.73	1.80	1.40	1.26	1.17	1.09	0.97	0.95	0.94
Cond. (S/cm)	0.547	0.547	0.546	0.546	0.546	0.546	0.545	0.545	0.545
Turbidity (Ntu)	12	10.4	11	13.7	16.1	35.3	37.3	38.5	40.1
ORP (mV)	234	163	149	145	143	142	141	141	141
Est. Purge Vol. (gal.)								14 Gal=Total volume purged	
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min
PID (ppm)									
Notes:	Pump is set at 109 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-30</u> Date: <u>4/22/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes <u>No</u>	
NJDEP Laboratory Certification #: 12995 Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations


Well Diameter (in):	6 inches	Volume of Standing Water (gal):	125.36 gallons
Depth to Water (ft):	86.72 feet	Minimum Volume to be Purged (gal):	376.08 gallons
Depth to Bottom (ft):	172 feet		
Height of Water Column (ft):	85.28 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump		
Purge Times:	8:25	to	8:51
Sampling Time:	9:00		
Analytical Parameters:	PP Metals		

Time	Before Purge	During Purge							Before Sampling
	8:25	8:29	8:33	8:36	8:39	8:42	8:45	8:48	8:51
Depth to Water (ft.)	86.85	86.86	86.86	86.86	86.87	86.87	86.88	86.88	86.88
pH (SU)	6.83	7.08	7.10	7.10	7.10	7.09	7.10	7.10	7.10
Temp. (oC)	15.81	16.6	16.75	16.76	16.79	16.81	16.83	16.85	16.83
DO (mg/l)	2.73	1.80	1.40	1.26	1.17	1.09	0.97	0.95	0.94
Cond. (S/cm)	0.547	0.547	0.546	0.546	0.546	0.546	0.545	0.545	0.545
Turbidity (Ntu)	12	10.4	11	13.7	16.1	35.3	37.3	38.5	40.1
ORP (mV)	234	163	149	145	143	142	141	141	141
Est. Purge Vol. (gal.)								14 Gal=Total volume purged	
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min
PID (ppm)									
Notes:	Pump is set at 109 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-53</u> Date: <u>4/21/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center; border: 1px solid black; padding: 2px; margin-bottom: 5px;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes No 2) Was structural integrity good? <input checked="" type="radio"/> Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>	
<div style="text-align: center; border: 1px solid black; padding: 5px; margin-bottom: 5px;">NJDEP Laboratory Certification #: 12995</div> Personnel: <u>J. Holzer and A. Mosuly</u>		

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	8.29 gallons
Depth to Water (ft):	112 feet	Minimum Volume to be Purged (gal):	24.86 gallons
Depth to Bottom (ft):	163.8 feet		
Height of Water Column (ft):	51.8 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grunfos Pump
Purge Times:	15:20 to 15:48
Sampling Time:	16:15
Analytical Parameters:	PP Metals

	Before Purge	During Purge							Before Sampling
Time	15:22	15:26	15:30	15:34	15:38	15:42	15:45		15:48
Depth to Water (ft.)	113.3	113.4	113.45	113.5	113.5	113.5	113.5		113.5
pH (SU)	6.50	6.55	6.69	6.70	6.69	6.71	6.71		6.72
Temp. (oC)	17.68	17.76	17.75	17.74	17.75	17.75	17.75		17.76
DO (mg/l)	2.45	0.32	0.00	0.00	0.00	0.00	0.00		0.00
Cond. (S/cm)	1.61	1.61	1.60	1.60	1.60	1.60	1.60		1.60
Turbidity (Ntu)	100	31.4	23.4	13.8	8.1	9.4	10.9		9.9
ORP (mV)	145	113	56	24	2	-11	-12		-16
Est. Purge Vol. (gal.)								34 Gal=Total volume purged	
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min	2 L/min		2 L/min
PID (ppm)									
Notes:	Pump is set at 127 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-54</u> Date: <u>4/27/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes <input type="radio"/> No 2) Was structural integrity good? <input checked="" type="radio"/> Yes <input type="radio"/> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	103.10 gallons
Depth to Water (ft):	85 feet	Minimum Volume to be Purged (gal):	309.30 gallons
Depth to Bottom (ft):	124.5 feet		
Height of Water Column (ft):	39.5 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump		
Purge Times:	10:25	to	11:00
Sampling Time:	11:10		
Analytical Parameters:	PP Metals		

Time	Before Purge	During Purge							
	10:25	10:28	10:31	10:34	10:37	10:40	10:43	10:47	10:51
Depth to Water (ft.)	85.35	85.5	85.5	85.77	85.98	86.23	86.4	86.51	86.66
pH (SU)	7.34	7.35	7.35	7.34	7.34	7.34	7.34	7.34	7.35
Temp. (oC)	16.59	18.06	18.5	18.53	18.75	18.79	18.74	18.75	18.79
DO (mg/l)	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cond. (S/cm)	0.767	0.801	0.799	0.811	0.828	0.831	0.832	0.832	0.831
Turbidity (Ntu)	26.4	27.6	23.4	23.6	22	20.7	19.2	18.6	18.6
ORP (mV)	-50	-74	-59	-55	-50	-56	-66	-76	-76
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.8 L/min	0.8 L/min	0.8 L/min	0.8 L/min	0.8 L/min	0.8 L/min	0.8 L/min	0.8 L/min	0.8 L/min
PID (ppm)									
Notes:	Pump is set at 120 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>MW-54</u> Date: <u>4/27/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <input checked="" type="radio"/> Yes <input type="radio"/> No 2) Was structural integrity good? <input checked="" type="radio"/> Yes <input type="radio"/> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <input checked="" type="radio"/> No </div>	
NJDEP Laboratory Certification #: 12995		
Personnel: <u>A. Mosuly and J. Holzer</u>		

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	103.10 gallons
Depth to Water (ft):	85 feet	Minimum Volume to be Purged (gal):	309.30 gallons
Depth to Bottom (ft):	124.5 feet		
Height of Water Column (ft):	39.5 feet		


Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	10:25 to 11:00
Sampling Time:	11:10
Analytical Parameters	PP Metals

	During Purge								Before Sampling
Time	10:54	10:57							11:00
Depth to Water (ft.)	86.8	86.9							87.1
pH (SU)	7.34	7.35							7.35
Temp. (oC)	18.9	18.89							18.87
DO (mg/l)	0.00	0.00							0.00
Cond. (S/cm)	0.830	0.831							0.832
Turbidity (Ntu)	17.5	15.6							15.8
ORP (mV)	-83	-86							-87
Est. Purge Vol. (gal.)								8 Gal=Total volume purged	
Purge Rate (L/min.)	0.8 L/min	0.8 L/min							0.8 L/min
PID (ppm)									
Notes:	Pump is set at 120 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>RW-09</u> Date: <u>4/27/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> <div style="margin-top: 5px;"> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;"> Yes <u>No</u> </div> </div>	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations


Well Diameter (in):	8 inches		Volume of Standing Water (gal):	gallons
Depth to Water (ft):	52.89 feet		Minimum Volume to be Purged (gal):	gallons
Depth to Bottom (ft):	feet			
Height of Water Column (ft):	feet			

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	14:42 to 15:11
Sampling Time:	15:15
Analytical Parameters:	PP Metals

	Before Purge	During Purge							Before Sampling
Time	14:42	14:46	14:49	14:53	14:57	15:01	15:04	15:07	15:11
Depth to Water (ft.)	*	*	*	*	*	*	*		*
pH (SU)	7.13	7.09	7.14	7.16	7.21	7.23	7.22	7.23	7.23
Temp. (oC)	17.58	17.67	17.76	17.73	17.68	17.84	17.92	17.89	17.91
DO (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cond. (S/cm)	0.964	0.976	0.959	0.956	0.949	0.951	0.955	0.953	0.954
Turbidity (Ntu)	74.6	176	513	616	912	382	698	678	677
ORP (mV)	-142	-139	-140	-142	-148	-147	-145	-147	-148
Est. Purge Vol. (gal.)								23 Gal=Total volume purged	
Purge Rate (L/min.)	3 L/min	3 L/min	3 L/min	3 L/min	3 L/min	3 L/min	3 L/min	3 L/min	3 L/min
PID (ppm)									
Notes:	Pump is set at 119 feet below top of casing. Purge water is clear and odorless. * Depth to water not measured due to malfunction of interface probe. Soakease half covered with product.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>RW-11</u> Date: <u>4/25/05</u>	Page <u>1</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? Yes No 2) Was structural integrity good? Yes No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes No	
NJDEP Laboratory Certification #: 12995		
Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	166.26 gallons
Depth to Water (ft):	58.7 feet	Minimum Volume to be Purged (gal):	499 gallons
Depth to Bottom (ft):	171.8 feet		
Height of Water Column (ft):	113.1 feet		

Purging and Sampling Details

Purging Method:	Low Flow-2" Grunfos Pump		
Purge Times:	10:58	to	11:39
Sampling Time:	11:45		
Analytical Parameters:	PP Metals		

Time	Before Purge	During Purge							
	10:58	11:02	11:05	11:08	11:11	11:14	11:18	11:21	11:24
Depth to Water (ft.)	59.31	59.32	59.32	59.32	59.32	59.32	59.32	59.32	59.32
pH (SU)	7.75	7.74	7.77	7.74	7.74	7.74	7.74	7.73	7.72
Temp. (oC)	16.69	17.17	17.17	17.20	17.20	17.20	17.16	17.03	17.00
DO (mg/l)	8.83	8.20	7.81	7.21	6.74	6.31	6.02	5.66	5.50
Cond. (S/cm)	1.19	1.19	1.20	1.19	1.19	1.19	1.19	1.19	1.19
Turbidity (Ntu)	7.1	6.5	6.6	7.1	6.8	7.5	7.9	8.4	8.6
ORP (mV)	117	99	90	86	84	84	82	82	82
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1 L/min	1 L/min	1 L/min	1 L/min	1 L/min	1 L/min	1 L/min	1 L/min	1 L/min
PID (ppm)									
Notes:	Pump is set at 120 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

<h2 style="text-align: center; margin: 0;">Groundwater Purging and Sampling Field Log</h2>	Well ID #: <u>RW-11</u> Date: <u>4/25/05</u>	Page <u>2</u> of <u>2</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	SITE OBSERVATIONS (circle) 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) Yes <u>No</u>	
NJDEP Laboratory Certification #: 12995 Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations

Well Diam	6 inches	Volume of Standing Water (gal):	
Depth to Water	58.7 feet		166.26 gallons
Depth to Bottom	feet	Minimum Volume to be Purged (gal):	
Height of Water	feet		499 gallons

Purging and Sampling Details

Purging Method:	Low Flow-2" Grunfos Pump
Purge Times:	10:58 to 11:39
Sampling Time:	11:45
Analytical Parameters:	PP Metals

	During Purge								Before Sampling
Time	11:27	11:30	11:33	11:36					11:39
Water (ft.)	59.33	59.33	59.33	59.33					59.33
pH (SU)	7.75	7.74	7.74	7.74					7.74
Temp. (oC)	17.06	17.22	17.13	17.12					17.13
DO (mg/l)	4.81	4.82	4.83	4.85					4.83
Cond. (S/cm)	1.19	1.19	1.18	1.18					1.18
Turbidity (Ntu)	6.7	6.7	6.8	6.6					6.80
ORP (mV)	77	79	81	82					83
Purge Vol.									
Rate (L/min.)	1 L/min	1 L/min	1 L/min	1 L/min					1 L/min
PID (ppm)									
Notes:	Pump is set at 120 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.



Groundwater Purging and Sampling Field Log

Well ID #: **RW13**Page 1 of 1Date: **4/29/2005**Site Location: **Ingersoll Rand - Phillipsburg, New Jersey**Street Address: **942 Memorial Parkway** City: **Phillipsburg** State: **NJ**Client Name: **Ingersoll Rand** Project Number: **03710-167-0802**Technicians: **J. Holzer and A. Mosuly****SITE OBSERVATIONS (circle)**1) Was well locked upon arrival? ☒ Yes ☐ No2) Was structural integrity good? ☒ Yes ☐ No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes


☒ No**Well Data and Volume Calculations**

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	223.8 gallons
Depth to Water (ft):	84.55	feet		
Depth to Bottom (ft):	166.57	feet	Minimum Volume to be Purged (gal):	671.3 gallons
Height of Water Column (ft):	82.02	feet		

Purging and Sampling DetailsPurging Method: **Conventional - 2" Grundfos Pump**Purge Times: **8:50** to **12:00**Sampling Time: **12:10 + 12:15**Analytical Parameters: **VO+10, PP Metals**

Time	Before Purge	During Purge	Before Sampling	Notes: Purge water was clear and odorless.			
	8:50		12:00	Time	DTW(feet)	Flow Rate(GPM)	Pump set at (feet)
Depth to Water (ft.)	86.90		117.00	8:50	82.5	3.2	90
pH (SU)	7.14		7.18	9:00	91.4	2	N/A
Temp. (°C)	15.55		18.01	9:10	N/A	2	110
DO (mg/l)	7.69		9.35	9:30	95.75	1	N/A
Cond. (mS/cm)	0.679		0.879	10:00	100	1.1	N/A
Turbidity (Ntu)	5.6		2.4	10:50	104	1.1	N/A
ORP (mV)	207		187	11:15	107.3	1.1	N/A
Est. Purge Vol. (gal.)	332 gal			11:30	107.35	1.1	N/A
Average Purge Rate (gal/min.)	1.75 gal/min			11:40	N/A	N/A	117
PID (ppm)				12:00, water level reaches 117 feet, fracture area is reported to be at 118 feet.			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

 <div style="text-align: center;"> <h2 style="margin: 0;">Groundwater Purging and Sampling Field Log</h2> </div>	Well ID #: <u>TH-36</u> Date: <u>4/25/05</u>	Page <u>1</u> of <u>1</u>
Site Location: <u>Ingersoll Rand - Phillipsburg, New Jersey</u> Street Address: <u>942 Memorial Parkway</u> City: <u>Phillipsburg</u> State: <u>NJ</u> Client Name: <u>Ingersoll Rand</u> Project Number: <u>03710-167-0802</u>	<div style="text-align: center;">SITE OBSERVATIONS (circle)</div> 1) Was well locked upon arrival? <u>Yes</u> No 2) Was structural integrity good? <u>Yes</u> No 3) Were any unusual conditions observed? (i.e. odors, staining, unusual site activities, etc.) <div style="text-align: right;">Yes <u>No</u></div>	
<div style="text-align: center;">NJDEP Laboratory Certification #: 12995</div> Personnel: J. Holzer and A. Mosuly		

Well Data and Volume Calculations

Well Diameter (in):	6 inches		Volume of Standing Water (gal):	82.86 gallons
Depth to Water (ft):	60.13 feet		Minimum Volume to be Purged (gal):	248.58 gallons
Depth to Bottom (ft):	116.5 feet			
Height of Water Column (ft):	56.37 feet			

Purging and Sampling Details

Purging Method:	Low Flow-2" Grundfos Pump
Purge Times:	13:48 to 14:13
Sampling Time:	14:20
Analytical Parameters:	PP Metals

	Before Purge	During Purge							Before Sampling
Time	13:48	13:52	13:56	14:00	14:03	14:06	14:10		14:13
Depth to Water (ft.)	61.00	62.35	63.00	63.00	63.00	63.00	63.00		63.00
pH (SU)	6.94	7.02	7.24	7.24	7.24	7.24	7.23		7.23
Temp. (oC)	17.68	18.53	18.54	18.36	18.54	18.87	18.88		18.85
DO (mg/l)	3.74	2.70	2.35	2.11	2.10	2.12	2.14		2.14
Cond. (S/cm)	0.821	0.822	0.819	0.818	0.816	0.815	0.814		0.813
Turbidity (Ntu)	30.1	26.2	25.2	23.6	20.3	19.7	20.0		19.3
ORP (mV)	192	147	115	100	83	79	79		77
Est. Purge Vol. (gal.)									9 Gal=Total volume purged
Purge Rate (L/min.)	2 L/min	2 L/min	2 L/min	0.7 L/min	0.7 L/min	0.7 L/min	0.7 L/min		0.7 L/min
PID (ppm)									
Notes:	Pump is set at 110 feet. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61
 Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.